

Annual Statistical Report

AMERICAN
IRON AND STEEL
INSTITUTE
1982



AMERICAN IRON AND STEEL INSTITUTE
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FOREWORD

For more than eighty years the size and format of the Annual Statistical Report has been virtually unchanged. However, to improve the readability of the report the Committee on Accounting, Taxation and Statistics has approved a new format beginning with this issue.

The majority of the data found in the Annual Statistical Report is compiled from submissions by reporting companies, although some data from other published sources are also included. This report largely represents the steel activities of reporting companies. However, certain financial statistics represent the broader spectrum of corporate activities—including their non-steel activities. The financial data for 1982 is significantly impacted as a result of the acquisition of Marathon Oil by U.S. Steel Corporation. For this and other reasons, the coverage of this report may differ somewhat from that found in other publications.

NOTES

D—Disclosure

P—Preliminary

R—Revised

n.a.—Not available

Net ton—2,000 pounds

Gross ton—2,240 pounds

() Indicates loss or negative number.

Rounded figures do not necessarily add to totals.

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

SELECTED HIGHLIGHTS

THE IRON AND STEEL INDUSTRY AT A GLANCE

The Selected Statistical Highlights present a ten-year trend from which comparisons of year-to-year changes may be made for those items of the industry that are indicative of the operating level and the financial status of reporting companies. In the use of the highlights, it should be recognized that there is a difference in the universe of reporting companies for each of the major items in the statistical section. This is especially significant for the financial series as compared to other series; for example, the universe for financial data for 1981 and 1982 represents companies who in 1982 produced 82.1% of the reported raw steel production. Also, the user should recognize that many of these companies produce and sell products and services other than those related to the steel industry. Therefore, the financial data reported represents the results of the total operations of the steel companies.

SELECTED STATISTICAL HIGHLIGHTS

Table 1A
Shipments, Apparent Supply, Imports & Employment
(Thousands)

Year	Steel Mill Products—Net Tons				Imports as % of Apparent Steel Supply					Steel Employment (a)
	Total Net Shipments	Less Exports	Plus Imports	Apparent Steel Supply	Total	Japan	EEC	Canada	Other	Average No. of Employees
1982	61,567	1,842	16,663	76,388	21.8	6.8	7.3	2.4	5.3	289
1981 ^R	88,450	2,904	19,898	105,444	18.9	5.9	6.1	2.7	4.2	391
1980	83,853	4,101	15,495	95,247	16.3	6.3	4.1	2.5	3.4	399
1979	100,262	2,818	17,518	114,962	15.2	5.5	4.7	2.0	3.0	453
1978	97,935	2,422	21,135	116,648	18.1	5.6	6.4	2.0	4.1	449
1977	91,147	2,003	19,307	108,451	17.8	7.2	6.3	1.7	2.6	452
1976	89,447	2,654	14,285	101,078	14.1	7.9	3.2	1.3	1.7	454
1975	79,957	2,953	12,012	89,016	13.5	6.6	4.6	1.1	1.2	457
1974	109,472	5,833	15,970	119,609	13.4	5.1	5.4	1.1	1.8	512
1973	111,430	4,052	15,150	122,528	12.4	4.6	5.3	0.9	1.6	509
Details on Page:	30	42	54	...	65	65	65	65	65	20

(a) Covering only those employees engaged in the production and sale of iron and steel products and excludes mining and quarrying operations, transportation, warehousing, fabrication and other non-steel producing activities.

Table 1B
Raw Steel Data
(Thousands of net tons)

Year	United States					Percent of U.S. Production				
	World Production	Production	% of World	Capability	% of capability	By Type of Furnace			By Type Cast	
						O.H.	BOP	Elec.	Ingots	Continuous
1982	711,266	74,577	10.5	154,000	48.4	8.2	60.7	31.1	70.9	29.0
1981	779,399	120,828	15.5	154,300	78.3	11.1	60.6	28.3	78.2	21.6
1980	790,419	111,835	14.2	153,700	72.8	11.7	60.4	27.9	79.5	20.3
1979	824,486	136,341	16.5	155,300	87.8	14.0	61.1	24.9	82.9	16.9
1978	790,607	137,031	17.3	157,900	86.8	15.6	60.9	23.5	84.6	15.2
1977	741,828	125,333	16.9	160,000	78.4	16.0	61.8	22.2	87.3	12.5
1976	745,592	128,000	17.2	158,300	80.9	18.3	62.5	19.2	89.3	10.6
1975	712,033	116,642	16.4	153,100	76.2	19.0	61.6	19.4	90.7	9.1
1974	782,798	145,720	18.6	Not Available		24.3	56.0	19.7	Not Available	
1973	768,570	150,799	19.6	"		26.4	55.2	18.4	"	
Details on Page:	115	27	114	...	...	76	76	76	...	...

Table 1C
Selected Financial Highlights

(Millions of Dollars)

Year	Sales	Net Income	Net Income as a % of Sales	Stockholders' Equity†	Net Income as a % of Stockholders' Equity	Working Capital Ratio	Long-Term Debt	Capital Expendi- tures
1982	\$52,323.1	\$(3,197.2)	(6.1)	\$21,421.3	(17.7)	1.5	\$15,087.7	\$4,219.4*
1981 ^R	60,172.7	2,600.8	4.3	19,476.8	13.4	1.8	9,372.7	3,365.3
1980	52,828.8	1,734.9	3.3	18,056.6	9.6	1.7	9,803.0	3,389.6
1979	55,140.4	1,154.5	2.1	17,693.6	6.5	1.7	8,717.0	3,311.9
1978	49,033.0	1,276.6	2.6	17,603.7	7.3	1.8	8,763.0	2,595.2
1977	39,399.8	22.3	0.06	18,027.3	0.1	1.8	7,958.9	2,850.3
1976	36,092.5	1,337.4	3.7	17,192.2	7.8	1.9	6,966.5	3,252.9
1975	33,143.8	1,594.9	4.8	16,243.2	9.8	2.0	5,705.3	3,179.4
1974	37,745.0	2,475.2	6.6	14,513.5	17.1	1.8	4,651.2	2,114.7
1973	28,494.9	1,272.2	4.5	13,674.5	9.3	1.9	4,962.9	1,399.9
Details on Page:	12	12	12	15	12	...	15	13

†As of Dec. 31 of the prior year.

*Estimated cost to complete construction in progress \$1,915.7.

Table 1D
Source and Use of Funds

(Millions of Dollars)

Year	Source						Use					
	Net Income	Less Cash Dividends Declared	Income Reinvested	Deprecia- tion, etc.	Increase (Decrease) in Reserves, etc.	Total Internal Sources	External Debt and Stock	Total Sources of Funds	Capital Expendi- tures	Increase (Decrease) in Working Capital	Miscella- neous Investment and All Other	Total Disposition of Funds
1982	\$(3,197.2)	\$582.4	\$(3,779.6)	\$2,490.6	\$907.5	\$(381.5)	\$6,119.6	\$5,738.1	\$4,219.4	\$(3,979.6)	\$5,498.3	\$5,738.1
1981 ^R	2,600.8	688.7	1912.1	2,097.3	1,367.4	5,376.8	(379.9)	4,996.9	3,365.3	2,075.2	(443.6)	4,996.9
1980	1,734.9	629.8	1,105.1	1,957.8	332.0	3,394.9	1,401.1	4,796.0	3,389.6	835.0	571.4	4,796.0
1979	1,154.5	593.4	561.1	1,846.9	605.7	3,013.7	(244.1)	2,769.6	3,311.9	(16.3)	(526.0)	2,769.6
1978	1,276.6	536.1	740.5	1,707.1	261.1	2,708.7	153.5	2,862.2	2,595.2	719.1	(452.1)	2,862.2
1977	22.3	555.0	(532.7)	1,521.7	366.0	1,355.0	1,101.5	2,456.5	2,850.3	(133.9)	(259.1)	2,456.5
1976	1,227.4	637.1	700.3	1,378.4	235.9	2,314.6	1,396.0	3,710.6	3,252.9	275.0	182.7	3,710.6
1975	1,594.9	657.8	937.1	1,272.8	317.6	2,527.5	1,066.0	3,593.5	3,179.4	(43.8)	457.9	3,593.5
1974	2,475.2	674.4	1,800.8	1,327.2	225.8	3,353.8	(382.8)	2,971.0	2,114.7	935.8	(79.5)	2,971.0
1973	1,272.2	443.1	829.1	1,262.6	66.7	2,158.4	(256.8)	1,901.6	1,399.9	677.0	(175.3)	1,901.6
Details on Page:	12	12	...	12	15	...	...	...	13	15	...	...

Note: 1981 and 1982 data represents consolidated reports of steel industry companies who produced 82.1% of the reported raw steel production in 1982.

Selected Financial Highlights (Continued)

Table 1E
Capital Expenditures for Environmental Facilities
(Millions of Dollars)

Year	Water	Air	Total
1951-1965	\$ 209.6	\$ 238.8	\$ 448.4
1966-1970	315.9	256.9	572.8
1971-1975	439.3	790.6	1,229.9
1976	158.7	330.5	489.2
1977	205.7	329.1	534.8
1978	180.8	277.2	458.0
1979	201.2	449.6	650.8
1980	168.2	342.3	510.5
1981	119.4	369.8	489.2
1982	104.6	157.3	261.9
Total	\$2,103.4	\$3,542.1	\$5,645.5
Authorized for 1983 or later	\$ 130.6	\$ 115.7	\$ 246.3

Note: Capital expenditures in the above table include only those for facilities which were installed primarily for environmental control in domestic iron and steelmaking sectors, including steel company owned mines, quarries and fabricating plants. Total capital expenditures for all purposes, as shown in Tables 1C and 1D include those made by steel companies in both steel and nonsteel operations, domestic and foreign.

FINANCIAL STATISTICS

Financial data for 1981 and 1982 includes companies which make up 82.1% of the reported total raw steel production of the entire industry in 1982. Other years are based on results of companies representing varying percentages of the entire industry. Such results also include activities which are not part of the steel industry (extractive industries, fabrication, transportation, etc.) Likewise, the employment data for this universe includes the cost of employees engaged in all such operations. Employment data for steel operations of these companies are shown as memoranda data but are not the same parameter as those included in the employment section. It should also be noted company participation may vary due to a merger or sale.

Indexes on consumer and producer prices of steel mill products in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

Table 2
Income, Dividends, Return on Sales and Stockholders' Equity (a)

(Millions of net tons and dollars)

	1982	1981 ^a	1980	1979	1978	1977	1976	1975	1974	1973
Reporting Companies Represent:										
Blast furnace production	41.1	69.5	64.8	83.3	83.9	77.5	83.5	76.1	91.7	96.9
Per cent of industry	94.9	94.4	94.4	95.8	95.7	95.3	96.1	95.2	95.6	96.0
Raw steel production	61.3	103.0	95.6	119.7	121.7	111.6	116.3	105.1	132.9	138.1
Per cent of industry	82.1	85.3	85.5	87.8	88.8	89.0	90.9	90.1	91.2	91.6
Shipments of finished steel products	50.5	74.2	72.5	88.3	86.3	81.5	81.8	72.9	101.3	104.3
Statement of Income:										
Revenues:										
Sales (Net billing value of products shipped and other services)	\$52,323.1	\$60,172.7	\$52,828.8	\$55,140.4	\$49,033.0	\$39,399.8	\$36,092.5	\$33,143.8	\$37,745.0	\$28,494.9
Interest, dividends and other income	1,051.4	1,311.2	970.4	564.4	445.2	307.7	369.9	532.5	498.6	368.3
Total Revenue	53,374.6	61,483.9	53,799.2	55,704.8	49,478.2	39,707.5	36,462.4	33,676.3	38,243.6	28,863.2
Costs Applied to Billings and Other Services:										
Employment Costs:										
Wages and Salaries	11,997.6	14,680.7	13,715.2	14,396.9	12,976.0	11,218.8	10,222.3	9,232.8	9,579.9	8,312.4
Payroll taxes	931.0	1,085.1	961.3	982.8	844.2	697.7	635.9	566.4	585.8	509.3
Pensions	1,516.8	1,585.3	1,505.4	1,509.0	1,419.3	1,192.5	1,153.1	967.0	791.5	587.2
Insurance	1,541.8	1,381.4	1,276.3	1,149.3	1,028.9	913.3	873.7	745.4	585.4	537.2
Savings and vacation type plans	(d)	(d)	(d)	(d)	(d)	(d)	76.7	89.4	74.8	53.8
Supplemental unemployment benefits	155.9	93.1	78.0	41.8	66.6	75.0	61.6	42.6	54.8	58.9
All other employment costs	564.1	536.4	554.2	593.7	433.6	312.7	250.3	239.5	186.3	142.5
Subtotal-Employment Costs	16,707.0	19,382.0	18,090.4	18,673.5	16,768.6	14,410.0	13,273.6	11,883.1	11,858.5	10,201.3
Materials, supplies, freight and other services, etc.	32,722.1	34,721.9	30,393.7	31,380.4	27,494.5	22,096.4	19,175.7	17,373.6	19,900.3	14,450.5
Depreciation, depletion and amortization	2,490.6	2,097.3	1,957.8	1,846.9	1,707.1	1,521.7	1,378.4	1,272.8	1,327.2	1,262.6
Interest and charges on debt	1,646.8	869.2	873.2	746.4	752.2	605.4	480.7	382.5	353.7	357.4
Taxes other than income	1,755.6	664.6	638.7	806.6	688.8	533.5	560.8	515.7	482.6	452.5
Taxes on income	(650.2)	1,504.7	449.2	383.8	652.5	(433.4)	265.7	653.7	1,846.1	866.7
Loss or (gain) on discontinued operations and sales of assets (b)	1,899.9	(336.6)	(338.6)	712.7	137.9	951.6	(9.9)	...	...	...
Total Costs	56,571.8	58,883.1	52,864.4	54,550.3	48,201.6	39,685.2	35,125.0	32,081.4	35,768.4	27,591.0
Net Income	(3,197.2)	2,600.8	7,734.9	\$1,154.5	\$1,276.6	\$22.3	\$1,337.4	\$1,594.9	\$2,475.2	\$1,272.2
Per Cent Return on Sales	(6.1)	4.3	3.3	2.1	2.6	0.06	3.7	4.8	6.6	4.5
Per Cent Return on Stockholders' Equity (c)	(17.7)	13.4	9.6	6.5	7.3	0.1	7.8	9.8	17.1	9.3
Cash Dividends Declared	\$582.4	\$688.7	\$629.8	\$593.4	\$536.1	\$555.0	\$637.1	\$657.8	\$674.4	\$443.1
Stockholders:										
Number at end of year:										
Preferred	39,304	41,349	45,547	55,648	72,572	36,167	33,243	35,176	36,066	36,670
Common	694,108	724,854	755,644	772,014	817,632	779,499	773,635	831,877	899,329	948,452

(a) Some of the reporting companies, either directly or indirectly through subsidiary companies, are engaged in activities which are not a part of the steel industry and make their reports on a consolidated basis. Hence, "Net Income" as reported by such companies includes the operations of activities not concerned with steelmaking. Although the detail of net income is not available, the following Table 2A compares the contribution of the steel versus other business segments for certain financial items (as reported in the business segment sections of the companies annual reports).

(b) Includes only pretax (gains) or losses which were separately disclosed in annual financial statements to stockholders.

(c) Based on stockholders' equity as of Dec. 31 of the prior year.

(d) Costs included with wages and salaries.

Totals do not necessarily add due to rounding.

Table 2A
Steel Vs. All Other Business Segments

(Millions of Dollars)

	1982	1981 ⁿ	1980 ⁿ	1979 ⁿ
<i>Sales</i>				
Steel Segment	\$28,870	\$43,863	\$38,211	\$42,859
All Other Segments	26,252	21,231	18,751	16,029
Inter Segment Eliminations	(2,799)	(4,921)	(4,133)	(3,748)
Total	52,323	60,173	52,829	55,140
% Steel of Total	55%	73%	72%	78%
<i>Depreciation, Depletion and Amortization</i>				
Steel Segment	\$ 1,476	\$ 1,610	\$ 1,521	\$ 1,510
All Other Segments	973	458	415	317
Unallocated Corporate Items	42	29	22	20
Total	2,491	2,097	1,958	1,847
% Steel of Total	59%	77%	78%	82%
<i>Operating Income</i>				
Steel Segment	\$ (2,764)	\$ 2,362	\$ 777	\$1,962
All Other Segments	1,581	1,634	1,567	1,227
Unallocated Corporate Items	(218)	(274)	(214)	(201)
Total	(1,401)	3,722	2,130	2,988
% Steel of Total	...	63%	36%	66%
<i>Identifiable Assets</i>				
Steel Segments	\$25,721	\$28,524	\$28,227	\$27,206
All Other Segments	20,468	13,332	11,706	10,426
Unallocated Corporate Items	3,270	4,996	3,764	2,557
Total	49,459	46,852	43,697	40,189
% Steel of Total	52%	61%	65%	68%
<i>Capital Expenditures</i>				
Steel Segment	\$ 2,200	\$ 2,367	\$ 2,606	\$ 2,358
All Other Segments	1,974	959	744	915
Unallocated Corporate Items	45	39	40	39
Total	4,219	3,365	3,390	3,312
% Steel of Total	52%	70%	77%	71%

NOTE: Steel Segment generally includes raw material operations dedicated to the support of steel operations.

Table 3
Employment

(Millions of man hours and dollars)

(Includes total employment of companies rendering financial data)

	1982	1981 ^R	1980	1979	1978	1977	1976	1975	1974	1973
Number of Employees:										
Average monthly number of employees receiving wages and salaries during the year:										
Wage employees	291,689	378,169	390,359	456,146	457,540	443,964	444,829	453,385	508,904	509,777
Salaried employees	154,801	160,102	163,189	163,966	167,706	165,099	162,347	163,273	165,968	161,026
Total Employees	446,490	538,271	553,548	620,112	625,246	609,063	607,176	616,658	674,872	670,803
Man Hours Worked During the Year:										
Wage employees	509.7	693.5	704.8	862.4	872.8	826.3	828.1	814.4	975.7	991.0
Salaried employees	313.8	321.7	330.9	325.7	337.2	333.0	328.4	332.9	339.1	329.3
Total Hours	823.5	1,015.2	1,035.7	1,188.1	1,210.0	1,159.3	1,156.5	1,147.3	1,314.8	1,320.3
Total Payroll:										
Wage employees	\$7,359.7	\$9,849.2	\$9,277.0	\$10,167.9	\$9,160.8	\$7,878.7	\$7,168.5	\$6,380.4	\$6,855.2	\$5,989.4
Salaried employees	4,758.7	4,965.4	4,595.9	4,359.6	3,937.9	3,498.0	3,229.5	3,018.3	2,858.5	2,440.8
Total Payroll	12,118.4	14,814.6	13,872.9	14,527.5	13,098.7	11,376.7	10,398.0	9,398.7	9,713.7	8,430.2
Less portion of payroll included above but charged to own construction or other non-operating accounts	120.7	133.9	157.7	130.6	122.7	157.9	175.7	165.9	133.7	117.8
Balance	\$11,997.7	\$14,680.7	\$13,715.2	\$14,396.9	\$12,976.0	\$11,218.8	\$10,222.3	\$9,232.8	\$9,580.0	\$8,312.4

Table 4
Balance Sheet
(As of Dec. 31)
(Millions of dollars)

Assets	1982	1981 ^R	1980	1979	1978	1977	1976	1975	1974	1973
Current Assets:										
Cash and marketable securities	\$1,902.5	\$4,030.0	\$2,595.9	\$1,978.8	\$2,078.3	\$1,564.2	\$1,603.9	\$1,721.7	\$3,518.0	\$2,404.7
Receivables, less allowances for doubtful accounts ...	5,083.4	7,845.8	7,300.8	6,419.5	5,835.8	4,434.7	3,565.2	3,398.4	4,091.6	3,222.3
Inventories	8,091.3	7,970.0	6,794.8	6,909.1	6,480.1	5,898.2	6,408.5	5,390.8	4,394.1	3,728.7
Other Current Assets	326.6	179.7	267.9	160.7	186.2	443.0	251.0	239.5	208.8	156.5
Total Current Assets	15,403.8	20,025.5	16,959.4	15,468.1	14,580.4	12,340.1	11,828.6	10,750.4	12,212.5	9,512.2
Miscellaneous investments and other assets	3,837.3	3,520.9	3,723.3	2,873.0	3,009.0	2,867.0	2,613.1	2,437.5	2,112.3	1,894.7
Fixed Assets:										
Property, plant and equipment	54,572.8	47,187.0	45,998.3	43,790.2	42,280.3	41,406.7	39,879.2	37,145.0	34,500.3	33,593.7
Less—Depreciation, depletion and amortization	24,723.9	24,253.4	23,588.0	22,456.5	22,008.2	21,684.5	21,228.6	20,286.1	19,601.1	19,114.2
Net Fixed Assets	29,848.9	22,933.6	22,410.3	21,333.7	20,272.1	19,722.2	18,650.6	16,858.9	14,899.2	14,479.5
Intangibles	53.8	78.8	61.4	55.6	56.9	55.1	110.2	98.7	82.9	85.1
Deferred charges	521.1	510.2	542.5	458.9	441.2	432.6	361.5	274.4	199.5	161.2
Total Assets	\$49,665.5	\$47,069.0	\$43,696.9	\$40,189.3	\$38,359.6	\$35,417.0	\$33,564.0	\$30,419.9	\$29,506.4	\$26,132.7
Liabilities and Stockholders' Equity										
Current Liabilities:										
Accrued taxes, including Federal income taxes	\$1,127.0	\$1,649.7	\$1,365.5	\$1,212.8	\$1,168.3	\$771.5	\$865.1	\$897.5	\$1,846.3	\$1,104.8
Long-term debt maturing within one year	502.2	345.1	286.7	351.3	287.8	300.6	232.7	209.4	255.6	186.2
All other current liabilities	8,561.0	8,837.5	8,189.2	7,621.0	6,825.0	5,687.8	5,016.7	4,204.3	4,627.6	3,674.0
Total Current Liabilities	10,190.2	10,832.3	9,841.4	9,185.1	8,281.1	6,759.9	6,114.5	5,311.2	6,729.5	4,965.0
Long-term debt less amount maturing within one year ...	15,087.7	9,372.7	9,803.0	8,717.0	8,763.0	7,958.9	6,966.5	5,705.3	4,651.2	4,962.9
Other long-term liabilities and reserves	6,260.5	5,353.0	3,985.6	3,653.6	3,047.9	2,786.8	2,420.8	2,184.9	1,867.3	1,641.5
Minority interest in companies not wholly owned	80.7	89.7	590.1	577.0	574.0	307.7	34.9	26.3	15.2	49.8
Stockholders' Equity:										
Preferred stock	690.6	133.7	137.9	105.5	212.6	231.6	106.8	108.2	111.3	114.6
Common stock	3,935.8	3,709.6	3,836.2	3,398.1	3,201.1	3,221.4	3,172.6	3,052.0	3,046.4	3,047.5
Capital surplus	2,451.2	2,654.2	1,397.1	1,450.3	1,629.3	1,416.9	1,396.6	1,352.6	1,292.1	1,270.7
Income reinvested in business	10,968.7	14,923.8	14,105.6	13,102.7	12,650.6	12,733.8	13,351.3	12,679.4	11,793.4	10,080.7
Total Stockholders' Equity	18,046.3	21,421.3	19,476.8	18,056.6	17,693.6	17,603.7	18,027.3	17,192.2	16,243.2	14,513.5
Total Liabilities and Stockholders' Equity	\$49,665.5	\$47,069.0	\$43,696.9	\$40,189.3	\$38,359.6	\$35,417.0	\$33,564.0	\$30,419.9	\$29,506.4	\$26,132.7

Table 5
BLS—Consumer and Producer Price Indexes of Steel Prices (1967 = 100)

Source: United States Department of Labor, Bureau of Labor Statistics

Year	Iron and Steel							
	Consumer Price Index	Industrial Commodities	Steel Mill Products			Other Iron and Steel Products		
			Total	Finished	Semi-Finished	Pig Iron & Ferroalloys	Scrap Iron & Steel	Fdry. & Forgings
1948	72.1	76.9	52.0	52.4	48.7	76.8	162.9	57.3
1949	71.4	75.3	56.4	56.7	53.3	85.3	107.6	59.6
1950	72.1	78.0	59.4	59.5	57.8	87.3	139.3	60.6
1951	77.8	86.1	64.0	64.3	60.9	95.5	158.2	66.2
1952	79.5	84.1	65.4	65.8	62.3	98.8	152.0	66.5
1953	80.1	84.8	70.5	70.8	69.1	104.4	137.2	70.1
1954	80.5	85.0	73.8	73.8	74.2	103.9	106.2	71.7
1955	80.2	86.9	77.2	77.3	78.0	104.6	139.3	73.5
1956	81.4	90.8	83.8	83.8	83.5	114.3	176.3	81.0
1957	84.3	93.3	91.8	91.7	92.5	124.5	155.7	87.3
1958	86.6	93.6	95.0	94.9	95.9	125.1	124.8	89.9
1959	87.3	95.3	96.5	96.5	97.3	125.4	133.4	91.7
1960	88.7	95.3	96.4	96.3	97.1	120.4	110.2	92.4
1961	89.6	94.8	96.0	95.9	97.0	118.4	116.8	92.7
1962	90.6	94.8	95.8	95.7	97.0	113.9	95.2	92.8
1963	91.7	94.7	96.3	96.2	97.4	102.3	91.7	92.8
1964	92.9	95.2	97.1	97.0	98.6	97.1	109.4	93.8
1965	94.5	96.4	97.5	97.5	98.4	100.3	112.6	95.1
1966	97.2	98.5	98.9	98.8	98.8	100.3	106.6	96.8
1967	100	100	100	100	100	100	100	100
1968	104.2	102.5	102.5	102.5	102.3	100.9	93.0	103.0
1969	109.8	106.0	107.4	107.4	107.0	102.1	110.5	106.9
1970	116.3	110.0	114.3	114.3	112.2	114.6	138.9	112.6
1971	121.3	113.9	123.0	123.0	122.7	126.3	114.6	119.2
1972	125.3	117.9	130.4	130.4	130.9	125.4	121.8	124.3
1973	133.1	127.0	134.1	134.1	133.9	129.4	188.0	131.5
1974	147.7	153.8	170.0	170.0	169.0	188.1	353.2	161.4
1975	161.2	171.5	197.2	196.6	206.7	264.7	245.6	194.3
1976	170.5	182.4	209.8	209.0	223.1	261.6	259.0	218.6
1977	181.5	195.1	229.9	229.0	243.6	257.0	231.2	229.9
1978	195.3†	209.3	254.4	253.4	270.6	259.7	264.6	248.7
1979	217.7	236.1	280.4	279.5	294.3	296.5	341.9	275.8
1980	247.0	274.2	302.7	301.2	325.3	307.2	328.1	309.0
1981	272.3	303.6	337.6	336.2	359.3	315.1	327.4	329.3
1982	Total	312.3	349.7††	348.4††	370.2	316.5	232.9	345.3
Jan.	282.1	311.7	350.8	349.5	370.7	323.9	289.5	342.0
Feb.	282.9	311.4	350.5	349.2	370.7	320.0	287.0	344.3
Mar.	282.5	311.0	350.5	349.2	370.7	314.1	275.4	346.0
April	283.7	309.9	352.2	351.0	370.7	314.1	261.8	345.9
May	286.5	309.5	352.1	350.9	370.7	314.1	238.3	346.0
June	290.1	310.7	349.9	348.6	370.4	314.1	218.8	345.2
July	291.8	313.0	349.1††	347.7††	370.4	314.1	213.9	345.6
Aug.	292.4	313.4	348.7	347.3	370.3	316.6	215.4	345.5
Sept.	292.8	312.9	348.4	347.0	370.5	316.6	211.4	344.4
Oct.	293.6	314.4	349.8	348.6	369.0	316.6	204.7	346.8
Nov.	293.2	315.1	349.3	348.0	369.0	316.6	192.6	346.1
Dec.	292.0	315.0	345.5	344.0	368.7	316.6	186.4	346.1

†Urban wage earners and clerical workers for 1978 through 1982.

††Effective July 1982, this index excludes all fabricated wire products including nails and staples, barbed wire, fencing, etc.

EMPLOYMENT AND WAGE DATA

The data on number of employees, hours worked, wages and salaries paid, payroll cost per hour and employment cost per hour as shown on tables 6, 7, 10 and 11 cover those employees engaged in the operation of coke ovens, blast furnaces, steelmaking furnaces and finishing mills, etc. and the sale of products thereof as reported by companies comprising about 87% of total raw steel production. This contrasts with employment data shown on page 14 of the Financial Section which cover all operations of reporting companies.

Indexes on output per manhour in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

Table 6
Total Employment Cost per Hour Worked—Wage Employees
(Covering those employees engaged in the production of iron and steel products)

Year	Pay for Hours Worked						Memo Average Hourly Earnings in Steel (BLS) (7)	Other Payroll Costs			Total Payroll Cost Per Hour (11)	Employee Benefits Cost Per Hour (12)	Total Employ- ment Cost Per Hour (13)	Year
	Straight Time				Subtotal Pay For Hours Worked (6)	Pay For Holidays Not Worked (8)		Vacation Pay (9)	Allow- ances and Adjust- ments (10)					
	Regular (1)	Shift Differ- ential (2)	Sunday Premium (3)	Overtime Premium (4)						Premium For Work On Holidays (5)				
1982	\$13.012	\$.157	\$.375	\$.276	\$.235	\$14.055	\$13.96	\$.499	\$2.165	\$.089	\$16.808	\$6.973	\$23.781	1982
1981	12.092	.171	.434	.432	.298	13.427	13.11	.350	1.601	.071	15.449	4.709	20.158	1981
1980	10.971	.135	.377	.336	.295	12.114	11.84	.333	1.574	.156	14.177	4.274	18.451	1980
1979	9.822	.121	.368	.427	.281	11.019	10.77	.247	1.230	.055	12.551	3.370	15.921	1979
1978	8.890	.120	.333	.391	.242	9.976	9.70	.194	1.051	.049	11.270	3.033	14.303	1978
1977	8.029	.117	.280	.294	.193	8.913	8.67	.200	1.015	.123	10.251	2.785	13.036	1977
1976	7.247	.115	.249	.239	.148	7.998	7.86	.177	.912	.045	9.132	2.612	11.744	1976
1975	6.634	.080	.218	.171	.124	7.227	7.11	.170	.874	.040	8.311	2.279	10.590	1975
1974	5.921	.062	.212	.235	.120	6.550	6.36	.114	.653	.108	7.425	1.653	9.078	1974
1973	5.159	.062	.135	.218	.114	5.688	5.56	.092	.507	.024	6.311	1.370	7.681	1973
1972	4.813	.060	.087	.161	.100	5.221	5.15	.101	.528	.027	5.877	1.198	7.075	1972
1971	4.242	.060	.075	.126	.071	4.574	4.57	.090	.519	.032	5.215	1.046	6.261	1971
1970	3.926	.054	.71	.118	.067	4.236	4.22	.077	.431	.023	4.767	.910	5.677	1970
1969	3.776	.050	.72	.154	.068	4.120	4.09	.053	.370	.023	4.566	.809	5.375	1969
1968	3.553	.049	.067	.126	.065	3.880	3.82	.049	.376	.018	4.303	.729	5.032	1968
1967	3.398	.048	.063	.091	.056	3.656	3.62	.056	.349	.008	4.069	.689	4.758	1967
1966	3.353	.049	.065	.110	.059	3.636	3.58	.049	.324	.008	4.017	.616	4.633	1966
1965	3.261	.049	.064	.106	.056	3.536	3.46	.048	.343	.008	3.935	.540	4.475	1965
1964	3.177	.049	.061	.090	.054	3.431	3.41	.048	.310	.007	3.796	.559	4.355	1964
1963	3.166	.047	.055	.069	.053	3.390	3.36	.050	.240	.007	3.687	.560	4.247	1963
Incr. 1982 vs. 1963	\$9.846	\$.110	\$.320	\$.207	\$.182	\$10.665	\$10.60	\$.449	\$1.925	\$.082	\$13.121	\$6.413	\$19.534	Incr. 1982 vs. 1963
	311%	234%	582%	300%	343%	315%	315%	898%	802%	...	356%	1145%	460%	

Notes Pertaining to Table 6 by Column Numbers

Column
No.

- (1) Includes nonincentive bonus where applicable and Cost of Living Adjustment. The job class rate as established effective August 1, 1982 includes \$5.11 Cost of Living Adjustment roll in. The Cost of Living Adjustment subsequent to August 1, 1982 reached a total at year end of 9¢ per hour worked as shown below.

Cost of Living Adjustment Per Hour Worked

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Feb...	\$.06	\$.39	\$.56	\$.19	\$.14	\$.39	\$.25	\$.44	\$.36	\$.32
May...	.13	.15	.64	.23	.13	.51	.47	*	.58	.37
Aug...	.21	.28	...	...	.25	...	...	...	...	...
Nov...	.30	.44	.10	.08	.32	.13	.23	.14	.25	.09

*Excludes \$.33 diverted to finance pension improvements for retirees.

- (2) Shift differential was increased August 1, 1981 to 30¢ per hour middle shift and to 45¢ per hour night shift.
- (7) BLS average hourly earnings for 1965 do not include the one-time payment made by most companies in late 1965 resulting from the Extension Agreement covering the period from May 1, 1965 through August 31, 1965 which provided for an employment cost accrual of 11.5¢ per hour worked.
- (9) Includes regular vacation and company liability for vacation time-off and/or pay in lieu of SVP. Appropriate adjustments have been made beginning with the year 1963.
- (10) Allowances include earnings protection plan payments, reporting allowance, allowance for participation in military and naval training programs, jury duty, witness pay, funeral leave, rate retention under consent decree and similar actions, severance pay, \$150 bonus paid under the Experimental Negotiating Agreement with the Steelworkers Union and/or other unions, and retroactive payments.

Table 6A

Standard Hourly Wage Rate Increases and Minimum
Wage Rates in the Iron and Steel Industry
(Per Agreement With the United Steelworkers of America)
1961-1982

Effective Date	Standard Hourly Wage Rate Increases Per Hour			Minimum Std. Hourly Wage Rate
	Job Class 1 and 2	Increment/ Job Class	Avg. All Job Classes	(Job Class 1 and 2)
October 1, 1961	.085	.001	.092	2.285
September 1, 1965	.100	.003	.121	2.385
August 1, 1967	.060	.002	.076	2.445
August 1, 1968	.200	.005	.236	2.645
August 1, 1969	.120	.003	.142	2.765
August 1, 1970	.120	.002	.135	2.885
August 1, 1971	.500	.005	.537	3.385
August 1, 1972	.125	.004	.154	3.510
August 1, 1973	.125	.004	.155	3.635
May 1, 1974	.670	.002	.685	4.305
August 1, 1975	.890	.003	.913	5.195
August 1, 1976	.480	.004	.511	5.675
May 1, 1977	.340	.004	.371	6.015
August 1, 1977	.200	...	.200	6.215
February 1, 1978	.100	...	.100	6.315
August 1, 1978	.800	.003	.823	7.115
February 1, 1979	.100	...	.100	7.215
August 1, 1979	.820	.003	.843	8.035
May 1, 1980	.690	.010	.770	8.725
August 1, 1980	.260	...	.260	8.985
August 1, 1981	.990	.010	1.071	9.975
August 1, 1982	.770*	.010	.853	10.745

*See footnote (1) for explanation.

Note: As of August 1, 1982, the hourly wage rate varies from a minimum (Job Class 1 and 2) of \$10.745 to a maximum (Job Class 34) of \$15.449 with an increment of 14.7¢ per hour between job classes.

Table 7
Number of Employees, Hours Worked and Payroll Cost
(Covering those employees engaged in the production and sale of iron and steel products)

Year	Employees Receiving Wages					Employees Receiving Salaries			All Employees Receiving Wages and Salaries					Year
	Average Number of Em- ployees †	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Em- ployee	Total Wages * (000)	Average Payroll Cost Per Hour	Average Number of Em- ployees †	Total Hours Worked (000)	Total Salaries * (000)	Average Number of Em- ployees †	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Em- ployee	Total Wages and Salaries * (000)	Average Payroll Cost Per Hour	
1982	198,477	345,093	33.3	\$5,800,380	\$16.808	90,960	180,535	\$3,034,477	289,437	525,628	34.8	\$8,834,856	\$16.808	1982
1981	286,219	543,324	36.4	8,394,034	15.449	104,695	209,373	3,494,624	390,914	752,697	36.9	11,888,658	15.795	1981
1980	291,483	544,220	35.7	7,715,679	14.177	107,346	213,575	3,218,442	398,829	757,795	36.3	10,934,121	14.429	1980
1979	341,931	669,045	37.5	8,397,211	12.551	111,250	225,033	3,085,197	453,181	894,078	37.8	11,482,408	12.843	1979
1978	339,155	669,720	37.9	7,547,510	11.270	110,042	222,462	2,778,779	449,197	892,182	38.1	10,326,289	11.574	1978
1977	337,396	645,853	36.7	6,620,557	10.251	114,992	230,051	2,622,822	452,388	875,904	37.1	9,243,379	10.553	1977
1976	339,021	645,748	36.4	5,897,181	9.132	115,107	231,038	2,434,283	454,128	876,786	36.9	8,331,464	9.502	1976
1975	339,945	621,691	35.1	5,166,768	8.311	117,217	233,214	2,279,525	457,162	854,905	35.9	7,446,293	8.710	1975
1974	393,212	771,977	37.7	5,732,017	7.425	119,183	241,140	2,170,827	512,395	1,013,127	37.9	7,902,844	7.800	1974
1973	392,851	787,955	38.5	4,972,953	6.311	115,763	235,000	1,837,475	508,614	1,022,955	38.6	6,810,428	6.658	1973
1972	364,074	709,894	37.3	4,172,287	5.877	114,294	230,408	1,677,013	478,368	940,302	37.6	5,849,300	6.221	1972
1971	366,982	690,431	36.1	3,600,764	5.215	120,287	241,070	1,582,178	487,269	931,501	36.7	5,182,942	5.564	1971
1970	403,115	771,886	36.7	3,679,658	4.767	128,081	257,852	1,554,077	531,196	1,029,738	37.2	5,233,735	5.082	1970
1969	415,301	835,154	38.6	3,813,449	4.566	128,718	263,821	1,517,511	544,019	1,098,975	38.7	5,330,960	4.851	1969
1968	420,684	829,837	37.7	3,570,606	4.303	130,873	265,280	1,443,005	551,557	1,095,117	38.0	5,013,611	4.578	1968
1967	424,153	818,486	37.0	3,330,529	4.069	130,990	265,231	1,355,014	555,143	1,083,717	37.4	4,685,543	4.324	1967
1966	446,712	889,190	38.2	3,571,900	4.017	128,835	263,312	1,322,503	575,547	1,152,502	38.4	4,894,103	4.247	1966
1965	458,539	901,984	37.7	3,549,102	3.935	125,312	256,224	1,247,956	583,851	1,158,208	38.0	4,797,058	4.142	1965
1964	434,654	869,447	38.3	3,300,516	3.796	118,901	244,658	1,171,823	553,555	1,114,105	38.5	4,472,339	4.014	1964
1963	405,536	790,006	37.4	2,913,214	3.687	114,753	233,369	1,104,721	520,289	1,023,375	37.7	4,017,935	3.926	1963

† Average of the monthly number of employees receiving pay after adjustment for turnover.

* Excludes other employment costs such as payroll taxes, supplemental unemployment benefits, pensions, insurance, workers compensation and thrift plans.

Table 8
*Collective Bargaining Agreements With The United
Steelworkers of America*

Year	Effective Date of New Agreement	Periods of General Steel Strikes	Length (Calendar Days)
1946	Feb. 15, 1946	Jan. 21—Feb. 17	28
1947	Apr. 22, 1947	...	...
1948	July 16, 1948	...	...
1949	Nov. 11, 1949	Oct. 1—Nov. 11	42
1950	Nov. 30, 1950	...	...
1952	July 26, 1952	{ Apr. 29—May 2 June 2—July 26	{ 3 55 }
1953	June 12, 1953	...	...
1954	July 1, 1954	...	...
1955	June 30, 1955	...	...
1956	Aug. 3, 1956	July 1	A Few Hours
1960	Jan. 4, 1960	July 1—Aug. 3	34
1962	Apr. 6, 1962	July 15—Nov. 7, 1959	116
1963	June 29, 1963	...	...
1965	Sept. 1, 1965	...	...
1968	Aug. 1, 1968	...	...
1971	Aug. 1, 1971	...	...
1974	Aug. 1, 1974	...	...
1977	Aug. 1, 1977	...	...
1980	Aug. 1, 1980	...	...

NOTE: Some companies have agreements with starting dates other than those listed above.

Table 9
BLS Index of Output Per Man-hour in the Steel Industry
(All Employees)

Year	1977 = 100	Year	1977 = 100
1952	68.5	1971	91.9
1953	70.0	1972	97.3
1954	66.8	1983	106.6
1955	75.9	1974	106.5
1956	74.8	1975	93.3
1957	72.9	1976	99.0
1958	67.4	1977	100.0
1959	75.7	1978	108.3
1960	71.2	1979	106.9
1961	73.4	1980	102.9
1962	77.1	1981	112.2
1963	80.6	1982	90.9
1964	84.1		
1965	87.5	Average Annual Increase*	
1966	89.2	1952-1982	1.6
1967	86.4	1962-1982	1.4
1968	89.5	1972-1982	0.1
1969	90.0		

*Based on least squares method.

Source: United States Department of Labor, Bureau of Labor Statistics

NOTE: Although the output per man-hour data relate output to one input—labor time—they do not measure the specific contribution of labor, of capital, or of any other factor to production. In short, they do not reflect solely changes in the productiveness of labor. Rather, they reflect the joint effect of a number of interrelated influences such as changes in technology, capital investment per worker, utilization of capacity, layout and flow of material, skill or the work force, managerial skill, and labor-management relations.

Table 10
Occupational Injury/Illness

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 86% of total raw steel production)

	1982	1981	1980	1979	1978
1. Aggregate number of man-hours (millions)	515	747	741	892	884
2. OSHA recordable injuries/illnesses:					
a. Fatalities	30	46	42	64	55
b. Lost workday cases	4,441	8,488	9,779	14,159	14,026
c. Other medical treatment cases	13,363	20,610	20,320	28,856	28,453
d. Total (2a through 2c)	17,834	29,144	30,141	43,079	42,534
3. Frequency rate (number of injuries/illnesses per 200,000 man-hours worked)	6,929	7,805	8,138	9,654	9,623
4. OSHA workdays lost (thousands)	141	238	246	323	311
5. Severity rate (days lost per 200,00 man-hours worked)	55	64	66	72	70

NOTE: Recordable injuries are reported as specified by the Bureau of Labor Statistics, U.S. Department of Labor pursuant to Section 24(a) of the Occupational Safety and Health Act of 1970.

Table 11
Wage Employees
Classified by Age and by Length of Service

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 92% of raw steel production)

Years of Service	1981		1980		Years of Age	1981		1980	
	No. of Employees*	%	No. of Employees*	%		No. of Employees*	%	No. of Employees*	%
Under 5	51,968	17.9	63,440	20.4	Under 25	22,900	7.9	30,544	9.8
5 to 9	57,347	19.7	57,690	18.5	25 to 34	89,208	30.7	94,300	30.2
10 to 14	42,472	14.6	48,116	15.4	35 to 44	60,563	20.8	60,342	19.4
15 to 24	53,337	18.3	52,372	16.8	45 to 54	65,606	22.6	70,546	22.6
25 to 34	68,013	23.4	74,292	23.8	55 to 64	51,205	17.6	54,672	17.5
35 and over	17,602	6.1	15,917	5.1	65 and over	1,257	0.4	1,423	0.5
Total	290,739	100.0	311,827	100.0	Total	290,739	100.0	311,827	100.0
Average service		16.6		16.2	Average age		41.3		41.0

*Employees at year end, including employees on layoff, disability, and leave of absence other than military. Excludes employees terminated or retired during the year. 1982 data was not available at the time this Report went to press.

SHIPMENTS—STEEL PRODUCTS

Data in this section are expressed in terms of Gross Shipments and Net Shipments. Gross shipments represent the aggregate tonnage shipped by reporting companies including steel consumed by the companies in their own construction, maintenance, repair and operations, as well as in their own manufacture of fabricated products. Net shipments eliminate tonnage duplication by deducting from the gross total those shipments from one reporting company to another reporting company for conversion, further processing or resale.

Table 12
Shipments of Steel Mill Products—1982
All Grades—(Carbon, Alloy and Stainless)

(Net Tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Ship- ments
Ingots and steel castings	246,944	1,021	245,923	0.4
Blooms, slabs, billets	1,049,995	15,363	1,034,632	1.7
Skelp	14,466	12,319	2,147	...
Wire rods	2,596,290	185,577	2,410,713	3.9
Total Semi-Finished	3,907,695	214,280	3,693,415	6.0
Structural shapes (3" & over)	3,313,470	11	3,313,459	5.4
Steel piling	249,975	...	249,975	0.4
Plates	4,152,391	6,134	4,146,257	6.7
Total Shapes and Plates	7,715,836	6,145	7,709,691	12.5
Rails—Standard (over 60 lbs.)	498,000	103	497,897	0.8
—All other	19,176	...	19,176	...
Joint bars	7,508	...	7,508	...
Tie plates	98,237	...	98,237	0.2
Track spikes	51,028	1	51,027	0.1
Wheels (rolled and forged)	71,498	2	71,496	0.1
Axles	36,474	...	36,474	0.1
Total Rails and Accessories	781,921	106	781,815	1.3
Bars—Hot Rolled	5,119,943	363,327	4,756,616	7.7
—Bar-Size light shapes	948,126	437	947,689	1.5
—Reinforcing	4,093,132	43,739	4,049,393	6.6
—Cold finished	1,014,880	138	1,014,742	1.7
Tool steel	44,415	418	43,997	0.1
Total Bars and Tool Steel	11,220,496	408,059	10,812,437	17.6

Table 12 (continued)
Shipments of Steel Mill Products—1982
All Grades—(Carbon, Alloy and Stainless)

(Net Tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Ship- ments
Pipe and tubing—Standard	978,053	16,278	961,775	1.5
—Oil country goods	1,835,120	75,769	1,759,351	2.9
—Line	1,094,248	876	1,093,372	1.8
—Mechanical	781,789	19,533	762,256	1.2
—Pressure	107,867	332	107,535	0.2
—Structural	301,360	311	301,049	0.5
—Stainless	41,820	1,018	40,802	0.1
Total Pipe and Tubing	5,140,257	114,117	5,026,140	8.2
Wire—Drawn	1,007,387	4,254	1,003,133	1.6
—Nails and staples	123,116	51	123,065	0.2
—Barbed and twisted	65,038	1	65,037	0.1
—Woven wire fence	74,171	215	73,956	0.1
—Bale ties and baling wire	43,091	...	43,091	0.1
Total Wire and Wire Products	1,312,803	4,521	1,308,282	2.1
Black plate	323,586	4,676	318,910	0.5
Tin plate	3,018,030	...	3,018,030	4.9
Tin Free steel	918,104	...	918,104	1.5
Tin Mill products—All other	66,121	...	66,121	0.1
Total Tin Mill Products	4,325,841	4,676	4,321,165	7.0
Sheets—Hot rolled	9,874,993	822,553	9,052,440	14.7
—Cold rolled	11,183,873	51,872	11,132,001	18.1
Sheets & strip—Galvanized—Hot dipped	4,882,775	5,191	4,877,584	7.9
—Electrolytic	491,343	11	491,332	0.8
—All other metallic coated	693,981	216	693,765	1.1
Strip—Hot rolled	446,341	1,147	445,194	0.7
—Cold rolled	578,242	79,881	498,361	0.8
.....	733,771	10,091	723,680	1.2
Total Sheets and Strip	28,885,319	970,962	27,914,357	45.3
Total Shipments	63,290,168	1,722,866	61,567,302	100.0

Table 13
Shipments of Steel Products—1982
By Grades (Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Ingot and steel castings	58,580	0.1	182,404	2.7	4,939	0.5	245,923	0.4
Bloms, slabs, billets	632,910	1.2	369,825	5.5	31,897	3.6	1,034,632	1.7
Skelp	2,147	...	...	...	...	...	2,147	...
Wire rods	2,366,437	4.4	22,232	0.3	22,044	2.5	2,410,713	3.9
Total Semi-Finished	3,060,074	5.7	574,461	8.5	58,880	6.6	3,693,415	6.0
Structural shapes (3" & over)	2,876,955	5.4	436,504	6.5	...	...	3,313,459	5.4
Steel piling	219,302	0.4	30,673	0.5	...	...	249,975	0.4
Plates	3,037,915	5.6	1,010,995	15.0	97,347	10.9	4,146,257	6.7
Total Shapes and Plates	6,134,172	11.4	1,478,172	22.0	97,347	10.9	7,709,691	12.5
Rails:								
Standard (over 60 lbs.)	483,789	0.9	14,108	0.2	...	...	497,897	0.8
All other	19,176	...	...	...	...	...	19,176	...
Joint bars	7,508	...	...	...	...	...	7,508	...
Tie plates	98,237	0.2	...	...	...	...	98,237	0.2
Track spikes	51,027	0.1	...	...	...	...	51,027	0.1
Wheels (rolled and forged)	69,372	0.1	2,124	...	...	...	71,496	0.1
Axles	36,474	0.1	...	...	...	...	36,474	0.1
Total Rails and Accessories	765,583	1.4	16,232	0.2	—	—	781,815	1.3
Bars:								
Hot rolled	3,250,483	5.9	1,475,437	21.9	30,696	3.4	4,756,616	7.7
Bar-Size light shapes	947,689	1.8	(Included in Hot Rolled Bars)		...	...	947,689	1.5
Reinforcing	4,019,385	7.5	30,008	0.5	...	...	4,049,393	6.6
Cold finished	805,372	1.5	142,781	2.1	66,589	7.5	1,014,742	1.7
Tool steel	...	...	43,997	0.7	...	...	43,997	0.1
Total Bars and Tool Steel	9,022,929	16.7	1,692,223	25.2	97,285	10.9	10,812,437	17.6
Pipe and tubing:								
Standard	957,283	1.8	4,492	0.1	...	...	961,775	1.5
Oil country goods	1,220,115	2.3	539,236	8.0	...	...	1,759,351	2.9
Line	807,017	1.5	286,355	4.2	...	...	1,093,372	1.8
Mechanical	483,080	0.9	279,176	4.2	...	...	762,256	1.2
Pressure	73,041	0.1	34,494	0.5	...	...	107,535	0.2
Structural	299,057	0.5	1,992	...	...	...	301,049	0.5
Stainless	...	...	...	...	40,802	4.5	40,802	0.1
Total Pipe and Tubing	3,839,593	7.1	1,145,745	17.0	40,802	4.5	5,026,140	8.2

Table 13 (continued)
Shipments of Steel Products—1982
By Grades (Carbon, Alloy and Stainless)

(Net tons)								
Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Wire:								
Drawn	974,686	1.8	11,469	0.2	16,978	1.9	1,003,133	1.6
Nails and staples	123,065	0.2	...	...	...	...	123,065	0.2
Barbed and twisted	65,037	0.1	...	...	...	...	65,037	0.1
Woven wire fence	73,956	0.1	...	...	...	...	43,091	0.1
Bale ties and bailing wire	43,091	0.2	...	...	...	...	73,956	0.1
Total Wire and Wire Products	1,279,835	2.4	11,469	0.2	16,978	1.9	1,308,282	2.1
Black plate	318,910	0.6	...	...	...	...	318,910	0.5
Tin plate	3,018,030	5.6	...	...	...	...	3,018,030	4.9
Tin Free Steel	918,104	1.7	...	...	...	...	918,104	1.5
All Other T.M.P.	66,121	0.1	...	...	...	...	66,121	0.1
Total Tin Mill Products	4,321,165	8.0	—	—	—	—	4,321,165	7.0
Sheets:								
Hot rolled	8,128,472	15.1	910,083	13.5	13,885	1.6	9,052,440	14.7
Cold rolled	10,565,058	19.6	147,302	2.2	419,641	47.0	11,132,001	18.1
Sheets and strip:								
Galvanized:								
Hot dipped	4,627,208	8.5	250,376	3.7	...	...	4,877,584	7.9
Electrolytic	491,332	0.9	...	...	...	...	491,332	0.8
All other metallic coated	693,395	1.3	370	...	...	...	693,765	1.1
Electrical	33,992	0.1	411,202	6.1	...	...	445,194	0.7
Strip:								
Hot rolled	436,103	0.8	56,712	0.9	5,546	0.6	498,361	0.8
Cold rolled	548,349	1.0	32,062	0.5	143,269	16.0	723,680	1.2
Total Sheets and Strip	25,523,909	47.3	1,808,107	26.9	582,341	65.2	27,914,357	45.3
Total Net Shipments	53,947,260	100.0	6,726,409	100.0	893,633	100.0	61,567,302	100.0
Shipments to reporting companies	1,501,808	...	169,962	...	51,096	...	1,722,866	...
Total Gross Shipments	55,449,068	—	6,896,371	—	944,729	—	63,290,168	—

Table 14
Net Shipments of Steel Mill Products—All Grades
(Thousands of net tons)

Steel Products	1982		1981		1980		1979		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingots and steel castings	246	0.4	461	0.5	445	0.6	504	0.5	516	0.5
Blooms, slabs and billets	1,035	1.7	2,185	2.5	2,185	2.6	2,095	2.1	1,969	2.0
Skelp	2	...	18	...	24	...	35	...	31	0.1
Wire rods	2,411	3.9	3,040	3.4	2,668	3.2	2,861	2.9	2,554	2.6
Structural shapes (3" & over)	3,313	5.4	4,929	5.6	4,861	5.8	5,303	5.3	4,667	4.7
Steel piling	250	0.4	282	0.3	346	0.4	293	0.3	360	0.4
Plates	4,146	6.7	7,441	8.4	8,080	9.6	9,035	9.0	8,601	8.8
Rails—Standard (over 60 lbs.)	498	0.8	907	1.0	1,085	1.3	1,122	1.1	946	1.0
—All other	19	...	48	0.1	53	0.1	48	0.1	38	...
Joint bars	8	...	10	...	17	...	19	...	14	...
Tie plates	98	0.2	213	0.3	205	0.2	337	0.3	255	0.2
Track spikes	51	0.1	81	0.1	85	0.1	101	0.1	97	0.1
Wheels (rolled and forged)	72	0.1	110	0.1	159	0.2	180	0.2	165	0.2
Axles	36	0.1	100	0.1	193	0.2	218	0.2	188	0.2
Bars—Hot rolled	4,757	7.7	6,890	7.8	5,961	7.1	8,493	8.5	8,758	9.0
—Bar-Size light shapes	948	1.5	1,473	1.7	950	1.1	1,466	1.5	1,277	1.3
—Reinforcing	4,049	6.6	4,612	5.2	4,684	5.6	5,303	5.3	4,704	4.8
—Cold finished	1,015	1.7	1,631	1.8	1,585	1.9	2,245	2.2	2,084	2.1
Tool steel	44	0.1	67	0.1	79	0.1	95	0.1	92	0.1
Pipe and tubing—Standard	962	1.5	1,858	2.1	1,773	2.1	1,952	1.9	2,054	2.1
—Oil country goods	1,759	2.9	4,241	4.8	3,612	4.3	2,458	2.5	2,647	2.7
—Line	1,093	1.8	2,047	2.3	1,793	2.1	1,569	1.6	1,571	1.6
—Mechanical	762	1.2	1,348	1.5	1,159	1.4	1,507	1.5	1,480	1.5
—Pressure	108	0.2	154	0.2	149	0.2	170	0.2	184	0.2
—Structural	301	0.5	598	0.7	569	0.7	541	0.5	423	0.4
—Stainless	41	0.1	39	...	41	0.1	46	...	40	0.1

Table 14 (continued)
Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

Steel Products	1982		1981		1980		1979		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Wire—Drawn	1,003	1.6	1,440	1.6	1,392	1.7	1,918	1.9	1,968	2.0
—Nails and staples	123	0.2	150	0.2	173	0.2	257	0.2	289	0.3
—Barbed and twisted	65	0.1	81	0.1	70	0.1	67	0.1	58	0.1
—Woven wire fence	74	0.1	95	0.1	92	0.1	122	0.1	109	0.1
—Bale ties and baling wire	43	0.1	49	0.1	41	...	85	0.1	87	0.1
Black plate	319	0.5	421	0.5	504	0.6	629	0.6	623	0.6
Tin plate	3,018	4.9	3,490	3.9	4,166	5.0	4,604	4.6	4,489	4.6
Tin Free Steel	918	1.5	948	1.1	978	1.1	1,003	1.0	918	0.9
Tin Mill products—All other	66	0.1	68	0.1	61	0.1	75	0.1	70	0.1
Sheets—Hot rolled	9,052	14.7	13,451	15.2	12,116	14.5	15,995	16.0	15,447	15.8
—Cold rolled	11,132	18.1	14,396	16.3	13,313	15.9	17,284	17.2	17,821	18.2
Sheets and strip—Galvanized—Hot dipped	4,878	7.9	5,375	6.1	4,787	5.7	5,810	5.8	5,889	6.0
—Electrolytic	491	0.8	548	0.6	457	0.5	531	0.5	541	0.6
—All other metallic coated	694	1.1	836	0.9	722	0.9	975	1.0	997	1.0
—Electrical	445	0.7	599	0.7	601	0.7	697	0.7	639	0.6
Strip—Hot rolled	498	0.8	660	0.7	669	0.8	984	1.0	1,027	1.0
—Cold rolled	724	1.2	1,060	1.2	930	1.1	1,230	1.2	1,248	1.3
Total Steel Mill Products	61,567	100.0	88,450	100.0	83,853	100.0	100,262	100.0	97,935	100.0
Carbon	53,947	87.6	76,554	86.6	73,358	87.5	87,879	87.6	86,187	88.0
Stainless and heat resisting	894	1.5	1,163	1.3	1,127	1.3	1,361	1.4	1,191	1.2
Alloy (other than stainless)	6,726	10.9	10,732	12.1	9,368	11.2	11,022	11.0	10,557	10.8

Table 14 (continued)
Net Shipments of Steel Mill Products—All Grades
(Thousands of net tons)

Steel Products	1977		1976		1975		1974		1973	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingots and steel castings	423	0.5	488	0.6	559	0.7	684	0.6	614	0.6
Blooms, slabs and billets	1,736	1.9	1,967	2.2	2,020	2.5	2,937	2.7	3,095	2.8
Skelp	31	...	28	...	34	0.1	27	...	...	...
Wire rods	1,804	2.0	1,901	2.1	1,298	1.6	1,861	1.7	2,040	1.8
Structural shapes (3" & over)	4,035	4.4	3,857	4.3	4,697	5.9	6,548	6.0	6,556	5.9
Steel piling	347	0.4	330	0.4	424	0.5	662	0.6	525	0.5
Plates	7,529	8.3	7,160	8.0	8,761	11.0	10,919	10.0	9,678	8.7
Rails—Standard (over 60 lbs.)	1,109	1.2	1,303	1.5	1,179	1.5	924	0.8	916	0.8
—All other	37	0.1	37	...	70	0.1	66	0.1	51	...
Joint bars	17	...	19	...	29	...	30	...	21	...
Tie plates	264	0.3	250	0.3	222	0.3	269	0.2	216	0.2
Track spikes	103	0.1	105	0.1	88	0.1	88	0.1	86	0.1
Wheels (rolled and forged)	189	0.2	175	0.2	216	0.2	221	0.2	240	0.2
Axles	144	0.2	128	0.2	161	0.2	187	0.2	159	0.1
Bars—Hot rolled	8,369	9.2	7,822	8.8	7,410	9.3	10,080	9.2	9,729	8.7
—Bar-Size light shapes	993	1.1	842	0.9	736	0.9	982	0.9	1,034	0.9
—Reinforcing	4,179	4.6	3,876	4.3	3,666	4.6	5,089	4.6	5,135	4.6
—Cold finished	1,794	1.9	1,618	1.8	1,486	1.8	2,250	2.1	2,161	1.9
Tool steel	85	0.1	76	0.1	69	0.1	113	0.1	111	0.1
Pipe and tubing—Standard	1,853	2.0	1,782	2.0	2,096	2.6	2,918	2.6	2,979	2.7
—Oil country goods	2,405	2.6	1,678	1.9	2,577	3.2	2,262	2.1	1,736	1.6
—Line	1,330	1.5	1,019	1.1	1,721	2.2	2,373	2.2	2,008	1.8
—Mechanical	1,362	1.5	1,260	1.4	1,202	1.5	1,503	1.4	1,585	1.4
—Pressure	218	0.2	197	0.2	332	0.4	324	0.3	241	0.2
—Structural	290	0.3	298	0.3	258	0.3	411	0.4	548	0.5
—Stainless	32	0.1	31	0.1	42	0.1	53	...	36	...

Table 14 (continued)
Net Shipments of Steel Mill Products—All Grades
(Thousands of net tons)

Steel Products	1977		1976		1975		1974		1973	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Wire—Drawn	1,894	2.1	1,921	2.1	1,625	2.0	2,527	2.3	2,559	2.3
—Nails and staples	278	0.3	281	0.3	265	0.3	332	0.3	362	0.3
—Barbed and twisted	55	...	71	0.1	81	0.1	68	0.1	90	0.1
—Woven wire fence	113	0.1	134	0.1	124	0.2	128	0.1	134	0.1
—Bale ties and baling wire	60	0.1	54	0.1	59	0.1	117	0.1	100	0.1
Black plate	636	0.7	614	0.7	486	0.6	701	0.6	694	0.6
Tin plate	4,700	5.1	4,784	5.3	4,151	5.2	5,549	5.1	5,288	4.7
Tin Free Steel	974	1.1	967	1.1	1,000	1.2	1,211	1.1	1,243	1.1
Tin Mill products—All other	72	0.1	71	0.1	50	0.1	67	0.1	91	0.1
Sheets—Hot rolled	14,558	16.0	15,090	16.9	11,222	14.1	15,774	14.4	16,885	15.2
—Cold rolled	17,684	19.4	18,265	20.4	12,841	16.1	18,275	16.7	20,377	18.3
Sheets and strip—Galvanized—Hot dipped	5,293	5.8	4,914	5.5	3,537	4.4	5,772	5.3	6,515	5.9
—Electrolytic	364	0.4	265	0.3	183	0.2	333	0.3	371	0.3
—All other metallic coated	923	1.0	844	0.9	555	0.7	998	0.9	947	0.9
—Electrical	597	0.6	577	0.7	563	0.7	855	0.8	862	0.8
Strip—Hot rolled	1,082	1.2	1,196	1.3	961	1.2	1,405	1.3	1,869	1.7
—Cold rolled	1,186	1.3	1,152	1.3	901	1.1	1,575	1.4	1,543	1.4
Total Steel Mill Products	91,147	100.0	89,447	100.0	79,957	100.0	109,472	100.0	111,430	100.0
Carbon	81,268	89.2	80,320	89.8	70,764	88.5	97,948	89.5	100,924	90.6
Stainless and heat resisting	1,118	1.2	1,019	1.1	757	0.9	1,345	1.2	1,134	1.0
Alloy (other than stainless)	8,761	9.6	8,108	9.1	8,436	10.6	10,179	9.3	9,372	8.4

Table 15
Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1982		1981 ^R		1980		1979		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for converting and processing	3,222	5.2	5,058	5.7	4,117	4.9	5,058	5.0	4,612	4.7
Independent forgers (not elsewhere classified) ...	579	0.9	1,035	1.2	933	1.1	1,254	1.3	1,192	1.2
Industrial fasteners	404	0.7	648	0.7	590	0.7	934	0.9	870	0.9
Steel service centers & distributors	13,067	21.2	17,637	19.9	16,172	19.3	18,246	18.2	17,333	17.7
Construction, including maintenance	6,283	10.2	8,446	9.5	8,742	10.4	9,978	10.0	9,612	9.8
Contractors' products	2,287	3.7	3,230	3.7	3,148	3.8	3,745	3.7	3,480	3.6
Subtotal construction and contractors' products	8,570	13.9	11,676	13.2	11,890	14.2	13,723	13.7	13,092	13.4
Automotive:										
Vehicles, parts, etc.	9,111	14.8	12,808	14.5	11,855	14.2	18,099	18.0	20,651	21.1
Independent forgers	177	0.3	346	0.4	269	0.3	522	0.5	602	0.6
Total	9,288	15.1	13,154	14.9	12,124	14.5	18,621	18.5	21,253	21.7
Rail transportation:										
Freight cars, pass. cars & locomotives	997	1.6	976	1.1	1,884	2.3	2,445	2.4	2,188	2.2
Rails and all other	23	0.1	1,186	1.3	1,271	1.5	1,666	1.7	1,361	1.4
Total	1,020	1.7	2,162	2.5	3,155	3.8	4,111	4.1	3,549	3.6
Shipbuilding and marine equipment	399	0.6	1,101	1.3	1,201	1.4	924	0.9	845	0.9
Aircraft and aerospace	30	...	37	...	53	0.1	60	0.1	60	0.1
Oil and gas industry	2,745	4.5	6,238	7.1	5,371	6.4	3,739	3.7	4,140	4.3
Mining, quarrying and lumbering	254	0.4	493	0.6	454	0.5	569	0.6	508	0.5

Table 15 (continued)
Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1982		1981 ^a		1980		1979		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Agricultural:										
Agricultural machinery	425	0.7	820	0.9	852	1.0	1,306	1.3	1,080	1.1
All other	519	0.8	409	0.5	388	0.5	665	0.7	725	0.7
Total	944	1.5	1,229	1.4	1,240	1.5	1,971	2.0	1,805	1.8
Machinery, industrial equipment & tools	2,584	4.2	4,624	5.2	4,543	5.4	5,996	6.0	5,992	6.1
Electrical equipment	2,003	3.3	2,600	2.9	2,441	2.9	2,819	2.8	2,811	2.9
Appliances, utensils and cutlery	1,337	2.2	1,775	2.0	1,725	2.1	2,140	2.1	2,094	2.1
Other domestic and commercial equipment	1,247	2.0	1,622	1.8	1,701	2.0	2,073	2.1	1,889	1.9
Containers, packaging and shipping materials:										
Cans and closures	3,480	5.7	3,786	4.3	4,163	5.0	4,994	4.9	4,950	4.9
Barrels, drums and shipping pails	536	0.9	744	0.8	725	0.9	939	1.0	809	0.9
All other	454	0.7	762	0.9	663	0.7	839	0.9	836	0.9
Total	4,470	7.3	5,292	6.0	5,551	6.6	6,772	6.8	6,595	6.7
Ordnance and other military	203	0.3	166	0.2	177	0.2	204	0.2	207	0.2
Export (reporting companies only)	832	1.4	1,845	2.1	2,595	3.1	2,007	2.0	1,224	1.3
Nonclassified shipments	8,369	13.6	10,058	11.4	7,820	9.3	9,041	9.0	7,864	8.0
Total Shipments	61,567	100.0	88,450	100.0	83,853	100.0	100,262	100.0	97,935	100.0

Table 15 (continued)
Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1977		1976		1975		1974		1973	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for converting and processing	3,679	4.0	4,036	4.5	3,255	4.1	4,486	4.1	4,714	4.2
Independent forgers (not elsewhere classified)	998	1.1	952	1.1	1,098	1.4	1,339	1.2	1,213	1.1
Industrial fasteners	848	0.9	912	1.0	675	0.8	1,331	1.2	1,278	1.1
Steel service centers & distributors	15,346	16.8	14,615	16.3	12,700	15.9	20,400	18.6	20,383	18.3
Construction, including maintenance	7,553	8.3	7,508	8.4	8,119	10.2	11,360	10.4	10,731	9.6
Contractors' products	4,500	4.9	4,502	5.0	3,927	4.9	6,249	5.7	6,459	5.8
Subtotal construction and contractors' products ...	12,053	13.2	12,010	13.4	12,046	15.1	17,609	16.1	17,190	15.4
Automotive:										
Vehicles, parts, etc.	20,882	22.9	20,667	23.1	14,750	18.4	18,256	16.7	22,468	20.2
Independent forgers	608	0.7	684	0.8	464	0.6	672	0.6	749	0.6
Total	21,490	23.6	21,351	23.9	15,214	19.0	18,928	17.3	23,217	20.8
Rail transportation:										
Freight cars, pass. cars & locomotives	1,709	1.9	1,469	1.6	1,836	2.3	2,132	1.9	1,997	1.8
Rails and all other	1,529	1.7	1,587	1.8	1,316	1.6	1,285	1.2	1,231	1.1
Total	3,238	3.6	3,056	3.4	3,152	3.9	3,417	3.1	3,228	2.9
Shipbuilding and marine equipment	869	1.0	969	1.1	1,413	1.8	1,339	1.2	1,019	0.9
Aircraft and aerospace	63	0.1	59	0.1	69	0.1	79	0.1	69	0.1
Oil and gas industry	3,650	4.0	2,653	3.0	4,171	5.2	4,210	3.9	3,405	3.1
Mining, quarrying and lumbering	486	0.5	536	0.6	596	0.7	644	0.6	534	0.5

Table 15 (continued)
Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1977		1976		1975		1974		1973	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Agricultural:										
Agricultural machinery	1,017	1.1	1,209	1.4	1,055	1.3	1,236	1.1	1,155	1.0
All other	631	0.7	575	0.6	374	0.5	623	0.6	617	0.6
Total	1,548	1.8	1,784	2.0	1,429	1.8	1,859	1.7	1,772	1.6
Machinery, industrial equipment & tools	5,566	6.1	5,180	5.8	5,173	6.5	6,440	5.9	6,351	5.7
Electrical equipment	2,639	2.9	2,671	3.0	2,173	2.7	3,242	3.0	3,348	3.0
Appliances, utensils and cutlery	2,129	2.3	1,950	2.2	1,653	2.1	2,412	2.2	2,747	2.5
Other domestic and commercial equipment	1,846	2.0	1,813	2.0	1,390	1.7	1,941	1.8	1,990	1.8
Containers, packaging and shipping materials:										
Cans and closures	5,173	5.7	5,301	5.9	4,859	6.0	6,349	5.8	6,070	5.5
Barrels, drums and shipping pails	768	0.8	859	1.0	601	0.8	1,026	0.9	910	0.8
All other	773	0.9	754	0.8	593	0.8	843	0.8	831	0.7
Total	6,714	7.4	6,914	7.7	6,053	7.6	8,218	7.5	7,811	7.0
Ordnance and other military	193	0.2	219	0.2	405	0.5	654	0.6	918	0.8
Export (reporting companies only)	1,076	1.2	1,839	2.1	1,755	2.2	3,961	3.6	3,138	2.8
Nonclassified shipments	6,616	7.3	5,500	6.6	5,537	6.9	6,963	6.3	7,105	6.4
Total Shipments	91,147	100.0	89,447	100.0	79,957	100.0	109,472	100.0	111,430	100.0

Table 16
Shipments of Steel Mill Products by Market Classification—1982
All Grades

(Net tons)

Products	Steel for Converting and Processing			Independent Forgings (Not elsewhere classified)	Industrial Fasteners	Steel Service Centers and Distributors	Construction Including Maintenance	Contractors' Products
	Total Shipments	Less Shipments to Reporting Companies	Net Shipments					
Ingots, blooms, billets, slabs, and tube rounds	122,805	16,384	106,421	316,134	22,296	68,625	29,353	478
Skelp	14,465	12,319	2,146	...	...	...	...	...
Wire rods	1,053,344	185,577	867,767	22	102,330	29,506	370,152	17,678
Structural shapes (3" & over)	1,335	11	1,324	...	...	609,511	1,773,580	9,140
Steel piling	180	...	180	...	...	21,282	212,769	...
Plates	50,769	6,134	44,635	2,118	4,490	997,423	1,025,796	52,310
Rails	103	103	...	...	...	29,358	16,096	...
Rail Accessories	1	1	...	1	14	10,922	1,840	...
Wheels (rolled and forged)	6	2	4	...	...	2,357	789	...
Axles	...	...	...	...	...	...	193	...
Bars—Hot rolled (including light shapes)	483,830	363,764	120,066	259,306	122,780	522,774	288,765	16,092
—Reinforcing	47,260	43,739	3,521	...	97	150,125	1,027,594	2,037
—Cold finished	3,014	138	2,876	918	12,389	288,908	1,924	12,373
Tool steel	771	418	353	135	15	5702	3	3
Pipe and tubing—Standard	39,989	16,278	23,711	...	...	667,740	8,079	35,820
—Oil country goods	86,327	75,769	10,558	...	...	121,991	7,482	871
—Line	1,416	876	540	...	...	212,044	34,451	237
—Mechanical	21,929	19,533	2,396	...	49	133,427	6,862	9,185
—Pressure	393	332	61	...	...	30,453	1,312	343
—Structural	2,210	311	1,899	...	...	153,317	10,438	2,016
—Stainless	1,263	1,018	245	...	...	13,507	768	317
Wire—Drawn	189,183	4,254	184,929	124	51,831	93,393	192,800	63,244
—Nails and staples	1,901	51	1,850	...	...	75,778	40,197	12
—Other merchant wire products	1,853	216	1,637	...	...	103,837	42,241	290
Black plate	21,457	4,676	16,781	...	...	55,696	4,843	35,151
Tin plate	16,368	...	16,368	...	...	246,356	164	1,182
Tin free steel	322	...	322	...	...	28,629	...	274
Tin Mill products—All other	33	...	33	...	...	15,506	...	697
Sheets—Hot rolled	2,011,086	822,553	1,188,533	238	24,383	3,471,673	428,672	402,085
—Cold rolled	571,914	51,872	520,042	153	4,436	3,025,670	58,788	562,678
Sheets and strip—Galvanized	45,313	5,202	40,111	...	42,899	1,639,719	537,679	983,894
—All other metallic coated	7,310	216	7,094	...	207	111,704	134,667	49,406
—Electrical	7,694	1,147	6,547	...	...	42,894	...	411
Strip—Hot rolled	91,488	79,881	11,607	172	6,869	26,772	21,205	8117
—Cold rolled	47,196	10,091	37,105	...	9,320	60,428	3,652	20,799
Total—All Grades	4,944,528	1,722,866	3,221,662	579,321	404,405	13,067,027	6,283,154	2,287,140
%	...	...	5.2	0.9	0.7	21.2	10.2	3.7

Table 16 (continued)
Shipments of Steel Mill Products by Market Classification—1982
All Grades

39
SHIPMENTS
By Market

(Net tons)

Products	Automotive	Rail Transportation	Ship-building and Marine Equipment	Aircraft and Aerospace	Oil and Gas Industry	Mining, Quarrying and Lumbering	Agricultural	Machinery, Industrial Equipment and Tools
Ingots, blooms, billets, slabs, and tube rounds	65,154	3,165	4	8,045	60,399	2,637	3,413	57,317
Skelp	...	...	...	...	...	...	...	...
Wire rods	38,275	...	18	27	220	2,762	14,469	304,258
Structural shapes (3" & over)	15,943	45,888	54,532	253	33,714	5,378	10,218	101,076
Steel piping	...	1,643	1,186	...	705	153	...	...
Plate	72,534	176,498	292,778	3,608	146,197	45,147	65,288	641,709
Rails	...	433,817	79	...	...	1,565	...	2,648
Rail Accessories	...	129,632	5	...	...	197	...	105
Wheels (rolled and forged)	...	63,979	73	...	...	596	...	3,241
Axles	...	35,859	...	...	...	296	...	84
Bars—Hot rolled (including light shapes)	1,015,374	71,157	12,150	9,247	156,961	129,652	82,122	380,640
—Reinforcing	...	...	...	...	...	4,836	...	21
—Cold finished	99,214	1,306	2,497	2,113	6,520	3,695	19,753	162,423
Tool steel	...	...	...	13	...	...	...	1,604
Pipe and tubing—Standard	166	405	332	...	72,012	1,442	1,805	7,447
—Oil country goods	...	...	...	...	1,417,082	...	...	21
—Line	...	...	...	...	704,622	44	549	908
—Mechanical	88,948	317	27	1,695	72,115	2,379	10,525	166,026
—Pressure	5	30	138	2	2,905	16	...	41,279
—Structural	450	1,320	435	...	58,782	...	3,956	463
—Stainless	575	...	491	153	806	...	...	6,468
Wire—Drawn	30,127	1,323	39	49	110	1,499	5,159	54,340
—Nails and staples	69	23	...	...	...	83	47	1,546
—Other merchant wire products	440	280	...	...	...	139	8,269	5,198
Black plate	7,517	...	...	...	...	...	...	2,264
Tin plate	66,145	...	...	...	...	...	23	3,774
Tin free steel	1,922	...	...	...	...	...	...	62
Tin Mill products—All other	39,637	...	...	...	...	...	...	2,132
Sheets—Hot rolled	2,193,386	46,707	32,438	455	2,950	44,743	198,451	237,720
—Cold rolled	3,656,576	2,595	472	1,118	5,559	1,488	40,908	196,560
Sheets and strip—Galvanized	1,250,531	740	684	75	115	880	434,621	39,171
—All other metallic coated	277,383	18	115	...	...	116	5,192	11,867
—Electrical	6,404	643	669	...	1,418	185	8	8,693
Strip—Hot rolled	225,518	1,911	15	1,822	1,197	3,739	28,721	90,962
Strip—Cold rolled	136,100	359	124	878	222	625	10,982	51,860
Total—All Grades	9,288,393	1,019,615	399,301	29,553	2,744,611	254,292	944,479	2,583,887
%	15.1	1.7	0.6	...	4.5	0.4	1.5	4.2

Table 16 (continued)
Shipments of Steel Mill Products by Market Classification—1982
All Grades

(Net tons)

Products	Electrical Equipment	Appliances, Utensils, and Cutlery	Other Domestic and Commercial Equipment	Containers, Packaging and Shipping Materials	Ordnance and Other Military	Export (Reporting Companies Only)	Non- classified Shipments	Total	%
Ingots, blooms, billets, slabs, and tube rounds	87	...	...	16,658	73,717	102,051	344,601	1,280,555	2.1
Skelp	1	...	...	...	...	...	...	2,147	...
Wire rods	1,813	489	110,230	1,458	...	45,990	503,249	2,410,713	3.9
Structural shapes (3" & over)	2,787	80	1,254	11	1,860	26,325	620,585	3,313,459	5.4
Steel piling	...	...	...	...	...	12,057	...	249,975	0.4
Plates	111,896	4,818	16,517	3,480	46,518	67,947	324,550	4,146,257	6.7
Rails	...	...	4,569	...	...	26,541	2,400	517,073	0.8
Rail Accessories	...	...	...	...	...	2,915	11,141	156,772	0.3
Wheels (rolled and forged)	...	...	...	...	...	457	...	71,496	0.1
Axles	...	...	...	...	...	42	...	36,474	0.1
Bars—Hot rolled (including light shapes)	52,343	10,088	22,299	944	24,214	40,041	2,367,290	5,704,305	9.2
—Reinforcing	2,502	...	...	...	...	91,701	2,766,959	4,049,393	6.6
—Cold finished	14,244	9,736	14,745	...	9,188	3,414	346,508	1,014,742	1.7
Tool steel	1	...	...	...	...	302	35,866	43,997	0.1
Pipe and tubing—Standard	57,376	257	10,842	...	25	24,655	49,661	961,775	1.5
—Oil country goods	89	...	...	...	...	66,983	134,274	1,759,351	2.9
—Line	707	...	213	1,405	...	5,415	132,237	1,093,372	1.8
—Mechanical	2,713	4,033	13,554	2,452	1,945	17,360	226,248	762,256	1.2
—Pressure	7	...	696	7,100	7	2,902	20,279	107,535	0.2
—Structural	20,957	...	247	1,733	...	...	45,036	301,049	0.5
—Stainless	72	49	235	19	9	1,510	15,578	40,802	0.1
Wire—Drawn	21,249	16,041	77,852	19,583	773	3,120	185,548	1,003,133	1.6
—Nails and staples	17	...	...	43	50	135	3,215	123,065	0.2
—Other merchant wire products	19	...	90	697	...	85	18,862	182,084	0.3
Black plate	8,418	14,692	24,490	142,849	...	6,209	...	318,910	0.5
Tin plate	12,176	20,767	21,103	2,527,365	...	102,607	...	3,018,030	4.9
Tin free steel	4,796	...	23	861,054	...	21,022	...	918,104	1.5
Tin Mill products—all other	407	2,527	2,273	1,643	...	1,266	...	66,121	0.1
Sheets—Hot rolled	328,591	82,496	131,596	167,893	24,943	44,225	262	9,052,440	14.7
—Cold rolled	873,265	908,842	652,019	578,176	7,230	35,408	18	11,132,001	18.1
Sheets and strip—Galvanized	86,122	187,622	83,099	24,433	1,458	10,600	4,463	5,368,916	8.7
—All other metallic coated	6,735	20,521	10,681	5,575	42	26,628	25,814	693,765	1.1
—Electrical	356,979	1,236	1,521	...	...	17,138	448	445,194	0.7
Strip—Hot rolled	20,213	6,065	9,080	12,538	1,255	7,436	13,147	498,361	0.8
—Cold rolled	16,053	46,161	37,286	93,016	9,395	17,138	172,177	723,680	1.2
Total—All Grades	2,002,635	1,336,520	1,246,514	4,470,125	202,629	831,625	8,370,414	61,567,302	100.0
%	3.3	2.2	2.0	7.3	0.3	1.4	13.6	100.0	—

EXPORTS AND IMPORTS

The following tables, compiled from Department of Commerce report on Foreign Commerce and Navigation of the United States, give the tonnage of iron and steel products exported and imported during the period 1978-1982. Exports and imports of iron and steel products not stated by weight in the reports are necessarily omitted.

Table 17
Exports of Iron and Steel Products

(Net tons)

Products	1982 ^P	1981	1980	1979	1978
Steel Mill Products:					
Ingot, blooms, billets, slabs, etc.	362,293	540,598	912,309	357,965	231,098
Wire rods	24,961	101,774	212,347	26,903	38,863
Structural shapes (3" & over)	56,398	131,379	151,077	139,062	124,445
Sheet piling	5,620	7,609	2,677	6,822	2,830
Plates	121,930	199,534	207,840	207,860	172,068
Rails—Standard	12,637	56,008	49,046	18,969	33,249
—Other	16,286	13,307	71,346	10,495	21,687
Rail joints and tie plates	7,563	9,011	9,620	8,686	13,081
Wheels and axles	2,706	7,366	4,517	2,496	8,573
Concrete reinforcing bars	114,739	137,349	166,168	86,281	111,346
Bars shapes under 3"	9,576	16,174	25,237	18,235	18,648
Bars—Hot rolled—Carbon	31,012	91,042	80,914	68,489	42,346
—Alloy	46,928	58,856	126,466	45,837	64,849
Cold finished bars	16,502	25,389	27,647	29,071	31,448
Tool steel	2,406	3,866	3,392	4,461	5,133
Hollow Drill Steel	1,445	4,818	4,244	7,870	8,539
Pipe—Line	48,003	47,822	41,294	86,606	84,980
Standard	73,100	118,636	118,163	154,550	117,075
Oil country goods	153,459	127,584	133,610	284,621	155,337
Tubing—Pressure	20,576	23,743	29,608	24,564	26,303
—Mechanical	34,273	44,263	42,241	57,220	78,981
—Structural	3,825	4,865	4,444	11,426	9,262
Other pipe and tubing	97,390	105,523	100,790	109,428	90,060
Wire—Coated or uncoated	7,128	9,643	9,451	10,674	12,906
—Carbon	15,735	25,162	27,101	21,335	24,538
—Barbed, Iron or Steel	3,399	2,549	6,091	2,813	1,057
—Nails and staples	7,091	11,948	11,596	10,320	23,910
Black plate	71,890	89,720	179,458	125,548	79,199
Tin plate	226,471	364,001	692,100	420,711	348,947
Terne plate & terne coated	13,656	17,089	14,924	19,694	25,317
Sheets—Hot rolled	62,188	195,292	211,291	100,525	98,681
—Cold rolled	38,352	75,768	129,341	115,652	121,649
Sheets & strip—Galv. & other coated	67,396	131,263	193,133	130,131	129,507
—Silicon alloy	13,229	17,707	18,563	30,798	15,192
Strip—Hot rolled	27,491	36,602	40,760	15,603	13,541
—Cold rolled	24,613	50,544	41,877	46,214	37,043
Total Steel Mill Products	1,842,267	2,903,793	4,100,683	2,817,935	2,421,688
Carbon	1,250,960	2,190,483	3,060,413	2,284,300	1,881,062
Alloy	538,717	628,432	907,906	447,925	469,054
Stainless	52,590	84,878	132,364	85,710	71,572

Table 17 (continued)
Exports of Iron and Steel Products

(Net tons)					
Products	1982 ^P	1981	1980	1979	1978
Other Steel Products:					
Plates—Fabricated	6,849	10,473	10,282	6,201	10,960
Structural shapes—Fabricated	119,300	172,392	175,038	121,296	119,557
Sashes and frames	10,136	12,803	12,471	10,237	11,116
Tails-used	52,796	56,777	55,592	70,224	50,428
Railway track material	6,606	4,461	4,502	4,770	5,593
Bolts, nuts	70,594	70,253	56,123	95,094	101,814
Architectural & ornamental work, ne.c.	5,574	10,188	10,405	4,157	5,821
Wire cable, rope, strand & cordage	13,733	20,511	17,222	14,292	14,621
Fabricated wire products	11,301	12,653	11,750	11,854	14,034
Wire springs	13,675	15,778	13,799	16,386	†
Welded wire mesh	7,890	7,143	14,691	6,870	9,370
Sheets—Fabricated	16,361	29,763	18,477	16,161	20,248
Cast steel rolls	3,205	5,073	4,263	3,432	3,669
Forgings	46,139	58,192	47,416	56,013	55,122
Chains and parts	11,918	11,865	11,405	10,072	10,786
Pipe & tube fittings	57,612	70,161	68,109	56,640	79,480
Total Other Steel Products	453,689	568,486	561,545	503,699	512,619
Total Steel Products	2,295,956	3,472,279	4,662,228	3,321,634	2,934,307
Iron Products and Ferroalloys:					
Cast iron pressure pipe	50,967	60,492	28,020	24,363	51,673
Cast iron soil pipe	37,962	6,587	20,234	9,790	34,222
Cast iron fittings not malleable	15,283	18,413	25,821	16,878	15,301
Cast iron fittings malleable	7,589	7,843	8,768	9,615	10,700
Iron castings	69,545	113,518	134,717	141,193	320,238
Pig iron	54,333	16,274	72,923	105,116	51,116
Sponge iron, iron or steel powders	13,939	18,212	26,167	20,566	16,063
Ferroalloys	42,411	61,107	128,460	113,163	65,664
Total Iron Products & Ferroalloys	292,029	302,446	445,110	440,684	564,977
Grand Total	2,587,985	3,774,725	5,107,338	3,762,318	3,499,284
Iron and steel scrap	6,803,764	6,415,379	11,168,014	11,053,877	9,037,921

† Not reported separately as of Jan. 1, 1978.

Table 18
Exports of Iron and Steel Products

(Net tons)

Products	1982 ^P	1981	1980	1979	1978	1977	1976	1975	1974	1973
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc	362,293	540,598	912,309	357,965	231,098	248,422	261,647	324,942	807,418	550,728
Wire rods	24,961	101,774	212,347	26,903	38,863	83,934	100,033	40,617	65,851	89,781
Structural shapes and piling	62,018	138,988	153,754	145,884	127,275	98,202	99,710	186,118	367,079	260,820
Plates	21,930	199,534	207,840	207,860	172,068	60,660	76,627	233,499	426,987	291,444
Rails and accessories	39,192	85,712	134,529	40,646	76,590	89,998	167,193	198,948	130,453	110,611
Bars and tool steel	222,608	337,463	434,068	260,244	282,309	229,991	282,587	264,021	753,747	402,846
Pipe and tubing	430,626	472,436	470,150	728,415	561,998	407,209	493,685	1,013,764	870,200	572,094
Wire and wire products	33,353	49,302	54,239	45,142	62,411	64,320	67,405	49,782	75,804	52,683
Tin mill products	312,017	470,810	886,482	565,953	453,463	374,500	412,989	271,721	577,983	516,344
Sheets and strip	233,269	507,176	634,965	438,923	415,613	345,865	692,130	369,712	1,757,626	1,205,100
Total Steel Mill Products	1,842,267	2,903,793	4,100,683	2,817,935	2,421,688	2,003,101	2,654,006	2,953,124	5,833,148	4,052,451
Other Steel Products	453,689	568,486	561,545	503,699	512,619	575,581	603,719	618,152	688,449	496,113
Total Steel Products	2,295,956	3,472,279	4,662,228	3,321,634	2,934,307	2,578,682	3,257,725	3,571,276	6,521,597	4,548,564
Iron Products and Ferroalloys	292,029	302,446	445,110	440,684	564,977	639,318	607,091	575,074	610,737	511,006
Grand Total	2,587,985	3,774,725	5,107,338	3,762,318	3,499,284	3,218,000	3,864,816	4,146,350	7,132,334	5,059,570

Table 19
Exports of Steel Mill Products

(Net tons)

Months	1982 ^P	1981	1980	1979	1978	1977	1976	1975	1974	1973
January	173,403	255,736	197,768	192,619	160,338	162,280	150,444	288,760	454,844	288,253
February	153,543	212,903	295,675	164,693	207,583	204,787	177,031	257,148	448,208	220,684
March	197,296	260,094	276,266	216,844	191,463	201,535	211,534	282,109	502,733	323,203
April	147,572	291,048	321,393	226,446	204,708	232,818	228,524	269,788	533,431	339,546
May	194,314	259,418	337,821	236,756	255,466	178,011	264,744	268,019	626,899	371,734
June	180,094	279,433	417,941	255,187	270,996	151,195	231,947	255,744	632,630	322,572
July	145,546	217,564	398,417	233,706	174,335	135,753	318,432	263,851	646,764	342,804
August	152,434	194,438	448,915	249,507	208,456	142,849	280,176	270,695	488,249	323,802
September	158,258	228,080	400,518	244,488	174,305	170,806	193,296	202,239	345,801	281,001
October	133,356	233,084	366,179	281,453	217,741	125,386	183,082	228,181	386,800	373,806
November	105,988	244,423	315,875	226,700	194,487	148,396	186,043	184,907	296,421	388,073
December	97,370	227,490	323,827	289,312	248,453	149,161	228,276	181,659	470,236	473,242
Total*	1,842,267	2,903,793	4,100,683	2,817,935	2,421,688	2,003,101	2,654,006	2,953,124	5,833,148	4,052,451

*Revised totals include adjustments not shown in monthly figures.

Table 20
Exports of Iron and Steel Products by Countries of Destination 1982
(Net Tons)

Products	Grand Total	Canada	Latin America													Total Latin Am.
			Mexico	Guatemala	El Salvador	Costa Rica	Panama	Dom. Rep.	Colombia	Venezuela	Ecuador	Peru	Chile	Brazil	Argentina	
Steel Mill Products																
Ingot, blooms, billets, slabs, etc.	362,293	11,232	87,766	10,527	...	13,778	2,169	25,295	122	527	7,640	18,554	13	8	8	175,915
Wire rods	24,961	4,070	2,493	570	...	21	38	6,388	90	89	8,306	65	2	14	18	18,554
Structural shapes (3" & over)	56,398	25,091	7,928	1	4	174	809	206	321	529	156	643	9	72	413	12,731
Sheet piling	5,620	1,256	807	...	...	...	...	...	2	...	...	11	...	2	...	3,375
Plates	121,930	39,824	12,434	47	58	61	428	277	436	1,306	284	617	215	315	204	20,718
Rails—Standard	12,637	4,934	5,467	...	...	...	...	171	2	306	...	84	196	...	...	6,527
—Iron or steel (NEC)	16,286	2,064	11,702	181	...	...	50	401	...	247	...	11	70	856	106	13,752
Rail joints and tie plates	7,563	1,922	1,948	166	...	...	4	...	2,832	23	...	...	195	20	7	5,480
Wheels and axles	2,705	207	556	...	...	...	84	362	...	129	48	140	37	2	...	1,444
Concrete reinforcing bars	114,739	3,898	5,293	4,370	...	...	1,008	973	272	88	15,247	86	...	...	19	47,790
Bar shapes under 3"	9,576	3,692	1,342	40	3	33	38	164	63	144	117	132	3	5	1	3,011
Bars—Hot rolled—Carbon	31,012	16,856	6,983	...	...	8	54	63	140	732	...	174	366	22	...	9,437
—Alloy	46,928	31,115	4,920	616	...	4	255	82	164	758	14	194	534	10	791	9,113
Cold finished bars	16,502	4,776	2,149	13	17	21	190	41	413	366	8	83	64	5	21	4,800
Tool steel	2,406	942	99	5	4	...	8	21	445	15	5	6	...	...	...	653
Hollow drill steel	1,445	618	58	10	...	...	...	...	4	17	1	6	24	4	...	195
Pipe—Standard	73,100	13,450	29,141	209	20	55	347	181	928	609	735	1,311	131	271	121	38,983
—Line	48,003	6,231	6,302	390	10	49	22	9	905	312	82	444	34	1	93	10,988
Oil country goods	153,459	12,202	10,529	1,978	...	...	39	...	6,529	22,582	1,765	4,460	362	2,135	2,559	64,799
Tubing—Pressure	20,576	6,438	667	16	6	9	48	6	433	556	15	37	43	173	158	2,431
—Mechanical	34,273	22,094	4,770	19	1	16	8	1	149	98	9	27	20	14	49	5,323
—Structural	3,825	366	343	3	...	...	22	18	24	57	8	163	...	10	...	1,117
Other pipe and tubing	97,390	14,208	6,826	98	41	29	1,177	171	773	3,710	397	676	102	84	835	19,681
Wire—Coated or uncoated	7,128	1,415	1,989	9	8	111	253	19	69	402	3	309	2	62	6	3,716
—Carbon	15,735	2,995	4,990	78	116	74	165	71	94	413	9	94	30	341	137	7,180
—Barbed, iron or steel	3,399	111	202	1	26	1	2	13	...	43	...	...	48	...	3	532
—Nails and staples	7,091	2,169	399	38	21	24	233	75	47	162	23	16	118	2	1	1,825
Black plate	71,890	1,469	458	79	...	...	...	60	74	63	...	...	...	507	320	2,590
Tin plate	226,471	2,404	55,275	716	...	391	2,315	5,017	768	24	1,300	114	758	8,051	5,330	85,491
Terne plate & terne coated	13,656	13,165	59	38	...	...	11	5	...	...	...	43	...	...	...	175
Sheets—Hot rolled	62,188	29,767	7,174	27	36	113	311	296	150	2,054	30	303	23	1,245	37	12,727
—Cold rolled	38,352	18,324	2,241	1	...	9	47	128	103	410	38	95	26	1,656	80	5,312
Sheets and strip—Galv. and other coated	67,396	24,964	4,769	450	31	34	97	635	33	95	166	83	486	218	1,240	8,818
—Silicon, alloy	13,229	2,443	3,890	...	...	...	...	...	37	2,122	...	...	22	608	466	7,145
Strip—Hot rolled	27,491	5,254	3,665	...	...	...	14	31	1	14,714	18	763	...	488	18	18,844
—Cold rolled	24,613	15,054	1,169	37	26	9	34	59	257	302	14	494	14	185	135	3,126
Total Steel Mill Products	1,842,267	347,820	294,813	20,733	428	15,024	10,280	41,240	16,680	55,504	36,438	30,238	3,947	17,386	13,174	636,009
Carbon	1,250,960	240,450	207,500	8,357	316	750	6,367	11,186	13,864	11,624	19,113	8,138	2,801	15,466	9,869	365,238
Alloy	538,717	89,030	80,522	12,329	101	14,192	3,725	29,740	2,118	43,042	17,197	21,764	1,063	1,605	2,874	258,861
Stainless	52,590	18,340	6,791	47	11	82	186	314	698	638	122	336	83	315	431	11,880

Country detail may not add to regional total because of omissions of some countries.

Table 20 (continued)
Exports of Iron and Steel Products by Countries of Destination 1982

(Net Tons)											
Products	Europe										Total Europe
	European Economic Community										
	Sweden	United Kingdom	Netherlands	Belgium-Luxembourg	France	West Fr Germany	Italy	Total E.E.C.*	Spain	Turkey	
Steel Mill Products											
Ingot, Blooms, Billets, Slabs, etc.	8	936	11	16	70	152	33,382	56,413	2	...	56,528
Wire Rods	4	153	48	74	76	32	13	404	337	3	775
Structural shapes (3" & over)	...	536	16	853	230	69	163	1,879	80	207	2,222
Sheet piling	...	9	...	2	...	...	3	14	...	...	33
Plates	41	4,100	70	8,032	300	80	5,125	17,741	8	...	19,649
Rails—Standard											
—Iron or Steel (NEC)	...	24	...	...	...	...	549	573	...	...	573
Rail Joints and Tie Plates	1	48	2	...	1	...	2	12	...	...	12
Wheel and Axles	2	11	2	104	2	...	20	70	2	...	75
Concrete Reinforcing Bars											
Bar Shapes under 3"	...	3	...	...	...	...	...	4	...	...	50
Bars—Hot Rolled—Carbon	...	111	136	4	68	19	...	340	...	...	364
—Alloy	15	1,175	6	...	20	7	...	1,384	...	...	1,632
Cold finished bars	69	434	45	5	156	1,564	136	2,407	35	...	2,552
Tool steel	45	334	62	56	104	192	89	909	4	...	1,324
Hollow drill steel	1	11	...	...	39	33	23	140	21	9	216
Pipe—Standard	...	2	...	...	62	3	...	85	...	...	121
—Line	73	2,291	218	328	90	322	886	4,158	19	...	4,346
Oil Country Goods	...	8	415	...	...	184	76	813	7	...	837
Tubing—Pressure	15	6,257	893	8	55	886	191	8,652	79	4	9,167
—Mechanical	16	764	329	50	75	325	28	1,669	446	145	2,986
—Structural	1	712	380	3	328	6	38	1,469	12	...	1,582
Other Pipe and Tubing	1	5	12	6	1	...	...	24	5	7	37
Wire—Coated or Uncoated	967	535	390	79	254	206	297	1,892	417	27	3,799
—Carbon	40	250	5	48	50	60	19	453	...	...	637
—Barbed, Iron or Steel	125	228	59	371	155	56	238	1,170	104	...	3,743
—Nails and Staples	3	104	...	...	15	83	29	231	...	...	257
Black plate	45	469	193	45	248	138	30	1,150	4	4	1,285
Tin plate	...	196	...	20	2	53	92	363	...	330	693
Terne plate & terne coated	...	11,962	...	...	53	3	22,189	34,207	595	6,883	41,898
Sheets—Hot rolled	...	...	32	...	...	...	...	32	...	...	32
—Cold rolled	846	200	9	1,631	16	136	79	14,052	11	43	14,975
—Galv. and other coated	175	899	39	1	190	555	15	1,707	1	...	1,995
Strip—Hot rolled	19	1,426	109	396	273	161	336	2,719	210	2	3,880
—Silicon, alloy	1,738	54	...	...	3	254	2	597	17	...	2,364
—Cold rolled	40	370	44	17	4	143	15	600	224	...	955
Total Steel Mill Products	361	267	51	52	31	554	699	1,675	26	7	2,170
Carbon	4,651	34,886	3,576	12,201	2,971	6,276	64,776	160,146	4,906	7,672	183,930
Alloy	2,207	27,169	2,101	10,470	1,280	2,720	55,624	121,856	3,380	7,263	138,099
Stainless	2,032	6,290	1,378	1,526	1,377	1,159	8,980	33,618	862	408	39,540
	412	1,427	95	205	314	2,397	172	4,672	664	1	6,291

*Includes totals for Denmark, Ireland and Greece.

Table 20 (continued)
Exports of Iron and Steel Products by Countries of Destination—1982

(Net Tons)

Products	Asia										Total Asia
	Israel	India	Pakistan	S. Arab	Indonesia	Philippines	Korea Rep.	Hong Kong	Taiwan	Japan	
Steel Mill Products											
Ingot, blooms, billets, slabs, etc.	71	3	13	285	16,283	6,415	61	5	249	337	86,245
Wire rods	2	1	...	318	33	3	13	2	41	49	589
Structural shapes (3" & over)	24	361	150	4,575	61	218	1,429	31	1,240	750	9,575
Sheet piling	...	...	96	25	...	...	40	...	1	1	554
Plates	403	6,113	5,626	3,349	336	269	1,496	219	4,336	243	37,641
Rails—Standard	...	...	...	...	...	54	20	...	...	...	143
—Iron or steel (NEC)	...	...	...	190	31	1	46	5	4	11	297
Rail joints and tie plates	...	...	...	36	...	10	3	...	...	3	66
Wheels and axles	48	68	...	23	1	1	33	...	...	8	245
Concrete reinforcing bars	107	...	...	22,878	...	...	4,483	1	...	6	29,027
Bar shapes under 3"	2	20	1	1,154	170	47	66	7	22	105	1,718
Bars—Hot rolled—Carbon	222	...	2	251	7	...	75	...	851	21	1,514
—Alloy	179	6	10	2,110	24	255	99	1	37	627	3,713
Cold finished bars	1,786	5	53	1,661	39	132	32	82	316	89	4,574
Tool steel	71	12	2	83	...	...	41	4	5	11	527
Hollow drill steel	...	...	...	21	...	4	...	6	...	...	128
Pipe—Standard	89	114	2	5,339	2,717	120	2,408	22	998	270	14,179
—Line	28	...	...	23,195	795	19	244	...	31	76	25,207
Oil country goods	611	120	69	10,739	5,318	42	820	32	1,811	634	42,861
Tubing—Pressure	1	11	14	2,081	1,144	153	902	2	1,174	561	7,009
—Mechanical	6	8	...	303	5	42	126	3	237	47	855
—Structural	15	...	...	766	3	11	868	3	6	...	1,823
Other pipe and tubing	94	235	277	27,042	2,114	803	1,494	58	1,533	399	54,466
Wire—Coated or uncoated	33	3	...	628	1	39	60	69	145	23	1,215
—Carbon	6	6	235	145	90	285	36	335	189	23	1,497
—Barbed, iron or steel	31	...	...	751	367	...	10	8	5	20	2,301
—Nails and staples	64	2	2	262	1	38	16	125	20	144	945
Black plate	230	22,591	29,104	...	237	335	10	565	5,995	270	65,821
Tin plate	229	13,496	4,718	4,578	7,882	24,081	159	5,989	12,287	192	88,852
Terne plate & terne coated	...	...	...	...	1	5	...	...	...	42	180
Sheets—Hot rolled	400	100	404	911	25	186	78	410	4,467	472	4,523
—Cold rolled	287	479	5,638	188	...	37	189	692	5,704	99	12,598
Sheets and strip—Galv. and other coated	442	6,863	1,957	5,048	595	594	164	543	500	119	23,602
—Silicon, alloy	6	174	43	...	17	...	2	...	963	...	1,205
Strip—Hot rolled	29	69	22	203	51	6	12	3	129	245	880
—Cold rolled	134	349	73	450	...	52	31	1	114	658	2,086
Total Steel Mill Products	5,650	51,209	48,511	119,848	38,338	34,257	15,588	9,223	38,410	6,555	528,641
Carbon	2,670	50,463	45,728	93,420	19,312	26,588	12,049	7,877	27,159	2,960	393,136
Alloy	2,602	564	1,305	23,517	17,711	7,491	2,622	579	7,076	2,264	121,297
Stainless	378	182	1,478	2,711	1,315	178	895	767	4,175	1,331	14,208

Table 20 (continued)
Exports of Iron and Steel Products by Countries of Destination—1982

Products	Oceania		Africa					Total Africa
	Australia	Total Oceania	Tunisia	Nigeria	Liberia	Zaire	So. Africa	
Steel Mill Products								
Ingot, blooms, billets, slabs, etc.	188	219	...	26,371	...	...	1	32,094
Wire rods	29	42	...	2	18	...	3	90
Structural shapes (3" & over)	510	535	...	79	...	...	153	6,244
Sheet piling	16	84	...	...	...	...	...	318
Plates	149	454	...	123	164	...	129	3,644
Rails—Standard	2	2	...	...	429	...	...	458
—Iron or steel (NEC)	...	...	...	...	...	...	16	181
Rail joints and tie plates	18	18	...	...	...	...	...	2
Wheels and axles	1	2	43	7	379	...	113	662
Concrete reinforcing bars	4	96	...	276	...	...	21	33,878
Bar shapes under 3"	68	129	...	4	2	...	...	662
Bars—Hot rolled—Carbon	81	87	...	...	...	...	...	1,486
—Alloy	81	290	...	3	...	...	3	145
Cold finished bars	395	654	...	...	...	...	122	574
Tool steel	12	37	...	...	...	...	...	31
Hollow drill steel	24	24	11	35	...	...	...	359
Pipe—Standard	632	847	39	115	7	...	460	1,295
—Line	1,019	1,818	...	63	3	...	308	2,922
Oil country goods	838	1,167	737	5,751	...	7	104	23,293
Tubing—Pressure	589	939	27	376	...	...	9	773
—Mechanical	812	863	...	...	...	15	186	3,556
—Structural	7	7	...	...	6	...	106	475
Other pipe and tubing	454	711	...	572	65	394	179	4,525
Wire—Coated or uncoated	76	80	...	4	2	...	30	85
—Carbon	90	130	...	15	10	...	124	190
—Barbed, iron or steel	27	29	...	18	...	...	65	189
—Nails and staples	342	549	...	3	30	...	432	539
Black plate	194	194	...	...	19	...	5	1,123
Tin plate	50	50	...	1,306	...	...	445	7,778
Terne plate & terne coated	...	...	...	104	...	...	...	104
Sheets—Hot rolled	87	107	...	...	19	...	14	89
—Cold rolled	94	99	...	...	1	...	1	24
Sheets and strip—Galv. and other coated	216	315	...	3,303	...	270	14	4,737
Strip—Hot rolled	2	2	...	...	...	...	70	70
—Cold rolled	456	456	...	30	...	...	54	100
—Cold rolled	375	443	...	2	...	...	35	1,754
Total Steel Mill Products	7,838	11,480	857	38,562	1,154	667	3,207	134,387
Carbon	4,782	7,027	704	29,797	1,027	686	2,210	107,009
Alloy	2,509	3,342	153	8,345	100	...	873	28,627
Stainless	647	1,111	...	420	27	1	124	751

Table 20A
Exports of Iron and Steel Products by Countries of Destination 1982
(Net Tons)

Products	Grand Total	Latin America														Total Latin Am.
		Canada	Mexico	Guatemala	El Salvador	Costa Rica	Panama	Dom. Rep.	Colombia	Venezuela	Ecuador	Peru	Chile	Brazil	Argentina	
Other Steel Products																
Plates—Fabricated	6,849	2,930	407	...	...	...	189	23	50	54	27	58	146	...	66	1,337
Structural shapes—Fabricated	119,300	9,547	12,346	261	117	274	1,777	385	1,460	4,469	243	528	237	15,735	799	54,538
Sashes and frames	10,136	1,696	120	6	3	1	11	11	8	139	6	67	467	1	63	2,029
Rails—Used	52,796	6,728	32,851	...	...	...	78	28	6	...	...	...	...	...	...	34,246
Railway track material	6,906	2,163	3,054	...	...	4	8	2	1	78	...	41	53	2	...	3,309
Bolts, nuts	70,594	41,390	16,794	85	29	54	189	108	200	1,219	39	103	45	17	40	19,704
Architectural and ornamental work, N.E.C.	5,574	307	143	...	3	...	138	12	...	3	1	1	23	...	150	1,121
Wire Strand, rope, cables & cordage	13,733	1,396	1,903	37	23	30	108	30	270	445	88	333	148	337	129	4,944
Fabricated wire products	11,301	3,714	2,012	11	6	14	111	151	18	212	2	134	11	13	3	3,302
Wire springs	13,675	9,403	2,064	4	...	3	13	4	75	632	32	46	23	2	...	2,965
Welded wire mesh	7,890	635	3,359	1	8	1	714	1	44	198	2	32	...	...	...	4,927
Sheets—Fabricated	16,361	2,404	1,348	7	...	66	250	65	42	557	20	28	17	...	323	3,768
Cast steel rolls	3,205	1,496	452	...	...	13	...	...	...	58	...	...	...	26	...	549
Forgings	46,139	12,768	8,374	...	76	42	1	1,573	205	2,706	2	575	3,298	5	229	17,671
Chains and parts	11,918	2,939	536	69	2	13	152	29	66	215	45	9	53	65	15	1,590
Pipe and tube fittings	57,612	9,480	3,240	55	51	63	381	60	350	2,373	314	173	322	70	167	9,863
Total Other Steel Products	453,889	108,996	89,003	536	318	578	4,120	2,482	2,795	13,358	821	2,128	4,843	16,273	1,984	165,863
Total Steel Products	2,295,956	456,816	383,816	21,289	746	15,802	14,400	43,722	19,475	66,862	37,259	32,386	8,790	33,659	15,158	801,872
Iron Products and Ferroalloys																
Cast iron pressure pipe	50,967	1,105	1,007	2	54	27	23	5	11	132	2,711	145	11	4	6	5,068
Cast iron soil pipe	37,962	419	378	...	7	...	...	...	6	296	10	3	...	3	5	773
Cast iron fittings not malleable	15,283	2,602	621	7	15	16	35	57	56	528	130	158	41	...	42	2,108
Cast iron fittings malleable	7,589	1,932	457	4	1	2	18	27	157	294	4	4	5	5	5	1,105
Iron castings	69,545	67,703	201	...	4	...	2	...	27	88	9	1	2	10	...	356
Pig iron	54,333	4,395	2,581	...	...	...	...	49	17	2	...	20	...	...	...	2,889
Sponge iron, iron or steel powders	13,939	6,758	1,694	...	...	...	...	...	156	326	...	164	18	2,286	1,100	5,750
Ferroalloys	42,411	20,607	3,072	...	...	...	14	39	176	80	...	66	4	34	5	10,228
Total Iron Products and Ferroalloys	282,029	105,521	19,011	13	81	45	92	177	906	1,746	2,864	561	81	2,342	1,183	28,057
Grand Total	2,587,985	562,337	393,827	21,282	827	15,847	14,492	43,899	20,081	70,808	40,123	32,927	8,871	36,001	16,321	829,929
Iron and steel scrap	6,803,764	307,271	379,561	3,060	...	84	6	103	21,623	44,695	...	12,125	11,294	8,795	208	482,844

Country detail may not add to regional total because of omissions of some countries.

Table 20A (continued)
Exports of Iron and Steel Products by Countries of Destination 1982
(Net Tons)

Europe											
European Economic Community											
Products	Sweden	United Kingdom	Netherlands	Belgium-Luxembourg	France	West Fr Germany	Italy	Total E.E.C.*	Spain	Turkey	Total Europe
Other Steel Products											
Plates—Fabricated	1	5	11	...	...	76	1	93	397	...	518
Structural shapes—Fabricated	131	654	410	75	490	231	80	2,051	439	2	3,157
Seches and frames	17	243	21	3	276	15	38	626	45	1	741
Rails—Used	...	...	...	...	7	...	...	7	...	...	7
Railway track material	2	...	...	...	...	1	...	1	...	...	3
Bolts, nuts	99	833	73	115	271	232	105	1,797	138	...	2,125
Architectural and ornamental work, N.E.C.	1	16	140	...	...	26	1	194	8	...	238
Wire strand, rope, cables & cordage	9	166	34	48	49	87	15	426	34	55	692
Fabricated wire products	119	422	34	149	153	185	55	1,055	61	2	1,482
Wire springs	39	354	21	...	18	48	24	465	156	6	678
Welded wire mesh	...	39	2	6	1	2	16	70	...	...	75
Sheets—Fabricated	19	72	290	6	28	51	1	451	...	2	600
Cast steel rolls	...	32	...	71	...	12	172	288	...	...	288
Forgings	195	500	1,421	99	1,191	228	22	3,491	7	25	3,864
Chains and parts	10	2,350	216	85	86	162	175	3,142	232	9	3,578
Pipe and tube fittings	87	541	542	187	538	454	145	2,464	149	39	3,591
Total Other Steel Products	729	6,227	3,215	844	3,108	1,810	850	16,621	1,886	141	21,817
Total Steel Products	5,380	41,113	6,791	13,045	6,079	8,086	65,626	176,767	6,572	7,813	205,547
Iron Products and Ferroalloys											
Cast iron pressure pipe	1	185	38	2	43	3	13	346	119	149	697
Cast iron soil pipe	...	...	...	...	8	1	...	15	...	...	86
Cast iron fittings not malleable	106	111	202	2	15	6	23	378	2	...	616
Cast iron fittings malleable	5	62	14	10	10	21	5	186	29	...	291
Iron castings	3	888	143	30	33	1	3	1,111	...	...	1,183
Pig iron	...	...	...	...	...	...	16,622	16,894	...	...	16,894
Sponge iron, iron or steel powders	45	236	53	36	34	108	25	587	...	...	632
Ferroalloys	28	68	231	77	203	1,878	637	3,107	...	21	3,705
Total Iron Products and Ferroalloys	188	1,550	681	157	346	2,018	17,328	22,824	150	170	24,084
Grand Total	5,568	42,663	7,472	13,202	6,425	10,104	82,954	199,591	6,722	7,983	229,631
Iron and steel scrap	43,266	3,033	5,614	11,481	496	10,173	12,409	251,536	867,566	638,592	1,903,594

*Includes totals for Denmark, Ireland and Greece.

Table 20A (continued)
Exports of Iron and Steel Products by Countries of Destination—1982
(Net Tons)

Products	Asia										Total Asia
	Israel	India	Pakistan	S. Arab	Indon- esia	Philip- pines	Korea Rep.	Hong Kong	Taiwan	Japan	
Other Steel Products											
Plates—Fabricated	5	...	...	478	...	4	430	...	218	190	1,890
Structural shapes—Fabricated	179	3,879	1,820	24,296	631	2,402	1,217	805	1,420	791	43,872
Sashes and frames	176	...	42	4,177	62	13	229	41	52	85	5,301
Rails—Used	...	11,797	...	3	...	...	...	...	14	...	11,815
Railway track material	113	2	...	701	1	57	6	3	...	6	893
Bolts, nuts	102	21	8	3,350	139	196	1,554	51	248	242	6,734
Architectural and ornamental work, N.E.C.	1	...	1	2,877	167	...	9	7	...	78	3,800
Wire strand, rope, cables & cordage	34	15	7	1,022	163	21	1,596	18	1,004	87	4,886
Fabricated wire products	206	4	1	1,109	94	45	67	101	281	70	2,455
Wire springs	6	1	...	196	7	21	13	4	2	9	418
Welded wire mesh	...	...	10	1,914	77	26	19	5	1	13	2,130
Sheets—Fabricated	22	...	83	5,973	4	97	400	141	544	154	9,297
Cast steel rolls	...	208	...	...	600	...	...	...	...	1	872
Forgings	147	45	15	115	243	4	28	1,192	11	11	4,061
Chains and parts	342	2	...	435	14	16	42	173	312	386	3,196
Pipe and tube fittings	95	86	218	22,075	1,373	728	1,280	92	1,774	733	31,495
Total Other Steel Products	1,428	16,062	2,205	88,721	3,835	3,630	6,890	2,633	5,881	2,818	132,518
Total Steel Products	7,078	67,271	50,716	188,369	41,973	37,887	22,456	11,856	44,291	9,371	681,157
Iron Products and Ferroalloys											
Cast iron pressure pipe	...	...	57	18,050	1	55	218	59	22	59	43,242
Cast iron soil pipe	17	...	20	6,909	...	514	48	...	1	24	8,462
Cast iron fittings not malleable	31	4	77	4,500	45	63	447	29	230	101	6,962
Cast iron fittings malleable	111	2	18	2,235	66	95	288	1	5	15	3,781
Iron castings	16	64	1	4	1	5	4	10	1	29	180
Pig iron	...	...	...	929	149	...	8,151	...	130	20,164	29,665
Sponge iron, iron or steel powders	17	7	...	...	...	49	10	65	26	185	865
Ferroalloys	11	462	...	...	13	5	137	10	80	3,420	4,283
Total Iron Products and Ferroalloys	203	536	173	32,627	275	786	9,301	174	495	23,997	97,100
Grand Total	7,281	67,810	50,889	220,996	42,248	38,673	31,757	12,030	44,786	33,368	758,257
Iron and Steel Scrap	492	422,361	88,608	317	40,810	22,711	1,522,066	288	351,686	1,529,568	4,099,156

Table 20A (continued)
Exports of Iron and Steel Products by Countries of Destination—1982

(Net Tons)								
Products	Oceania		Africa					Total Africa
	Aus- tralia	Total Oceania	Tunisia	Nigeria	Liberia	Zaire	So. Africa	
Other Steel Products								
Plates—Fabricated	50	50	...	10	...	...	1	124
Structural shapes—Fabricated	321	711	1	643	...	...	304	7,675
Sashes and frames	4	11	...	9	1	...	2	358
Rails—Used	...	...	...	...	...	...	...	...
Railway track material	10	22	...	...	4	...	...	227
Bolts, nuts	203	262	1	8	6	...	102	379
Architectural and ornamental work, NEC	9	14	...	1	...	...	...	294
Wire strand, rope, cables & cordage	188	256	...	112	21	1	35	1,756
Fabricated wire products	91	102	...	15	1	...	154	286
Wire springs	125	125	...	1	...	...	53	87
Welded wire mesh	...	46	...	4	2	...	...	77
Sheets—Fabricated	22	40	...	69	9	...	1	252
Cast steel rolls	...	...	...	...	...	...	...	...
Forgings	189	7,588	...	...	...	...	170	187
Chairs and parts	298	324	...	21	...	...	177	288
Pipe and tube fittings	530	754	...	120	56	...	396	2,429
Total Other Steel Products	2,040	10,295	2	1,013	100	1	1,395	14,402
Total Steel Products	9,978	21,775	859	30,575	1,254	688	4,802	148,789
Iron Products and Ferroalloys								
Cast iron pressure pipe	128	535	...	...	...	...	...	320
Cast iron soil pipe	...	82	...	...	4	...	...	28,140
Cast iron fittings not malleable	42	86	1	1	...	1	75	3,009
Cast iron fittings malleable	433	436	...	1	2	...	50	64
Iron castings	32	32	1	...	85	...	3	131
Pig iron	...	...	...	...	...	...	...	710
Sponge iron, iron or steel products	92	132	...	1	...	...	...	2
Ferroalloys	2,839	2,883	...	...	...	...	91	705
Total Iron Products and Ferroalloys	3,568	4,186	2	3	91	1	219	33,081
Grand Total	13,544	25,961	861	30,578	1,345	689	4,821	181,870
Iron and steel scrap	272	897	...	9,915	26	...	50	10,005

Table 21
Imports of Iron and Steel Products

(Net tons)					
Products	1982 ^a	1981	1980	1979	1978
Steel Mill Products:					
Ingots, blooms, slabs, and billets, etc.	716,588	790,062	155,343	344,693	413,899
Wire rods	941,390	888,442	829,259	985,414	1,326,580
Structural shapes (plain 3" and over)	1,483,481	1,976,796	1,739,543	1,881,967	1,798,963
Sheet piling	114,859	98,712	89,423	102,815	128,004
Plates	1,619,527	2,447,688	2,059,713	1,819,812	2,524,989
Rails and track accessories	320,341	282,868	271,172	213,676	189,159
Wheels and axles	19,931	35,701	142,904	99,547	96,726
Concrete reinforcing bars	51,676	52,645	78,639	116,955	109,956
Bar shapes under 3"	59,707	105,417	136,947	231,614	239,744
Bars—Hot rolled—Carbon	297,507	418,008	366,663	452,435	597,828
—Alloy	164,391	176,564	129,144	153,887	182,796
—Cold finished	218,306	232,005	146,782	170,501	204,489
Hollow drill steel	1,464	1,442	1,814	2,022	2,201
Standard pipe	705,517				
Oil country goods	2,179,862				
Line pipe	1,122,408				
Mechanical tubing	49,424				
Pressure tubing	48,594				
Other pipe and tubing	1,144,143				
Pipe and tubing—Welded	—	2,740,822	1,862,041	1,750,465	1,743,339
—Other	—	3,827,734	1,914,494	1,169,554	1,302,571
Round and shaped wire	318,996	369,173	377,789	439,851	576,056
Flat wire	15,205	15,847	17,264	20,817	23,221
Bale ties	129	83	437	85	311
Galvanized wire fencing	8,448	8,452	8,314	11,261	19,159
Wire nails	264,365	303,478	292,133	336,814	428,375
Barbed wire	18,162	26,942	18,937	18,429	27,659
Black plate	119,507	97,842	68,245	82,070	46,015
Tin plate	216,243	286,271	308,353	259,538	376,324
Terne plate	2,133	2,142	944	3,243	4,227
Sheets—Hot rolled	1,355,027	1,628,144	1,491,786	2,161,757	2,617,023
—Cold rolled	1,706,699	1,626,000	1,477,134	2,412,987	3,236,859
—Coated (incl. Galvanized)	1,227,693	1,303,586	1,349,770	2,139,148	2,312,940
—Coated alloy	182	9	23	3	58
Strip—Hot rolled	21,653	24,939	15,806	27,349	35,646
—Cold rolled	49,207	50,870	46,972	49,582	49,272
—Hot and cold rolled—Alloy	22,361	23,091	15,328	21,253	25,076
Sheets—Other—Electric coated	57,388	56,565	81,854	38,591	95,117
Total Steel Mill Products	16,662,532	19,898,340	15,494,970	17,518,135	21,134,582
Carbon	15,376,328	18,615,633	14,783,625	16,620,845	20,181,302
Alloy	1,083,683	1,091,514	558,671	728,188	753,543
Stainless	202,521	191,193	152,674	169,102	199,737

Table 21 (continued)
Imports of Iron and Steel Products

(Net tons)					
Products	1982 ^a	1981	1980	1979	1978
Other Steel Products:					
Structural shapes, fabricated	144,959	167,567	174,422	180,412	125,853
Shapes—Cold formed	615	485	368	534	330
Sashes and frames	997	703	501	213	164
Fence or sign posts	2,805	1,162	2,154	2,131	2,412
Wire—Nonmetallic covered	528	1,006	331	632	533
Wire rope	108,593	121,414	93,622	114,266	98,830
Wire strand	172,803	148,541	157,396	171,573	166,055
Welded wire fabric	19,933	13,730	19,027	23,203	25,994
Other nails and staples	23,530	26,243	24,684	30,784	33,762
Bale ties, made from strip	1,196	1,389	2,050	8,046	28,207
Bolts, nuts and rivets	421,661	445,312	429,679	499,578	532,576
Grinding balls	8,699	14,347	16,147	26,578	22,305
Blanks, nonrectangular flat rolled	4,016	4,830	6,011	6,753	10,025
Rigid conduit	1,656	1,920	2,053	3,094	3,323
Pipe and tube fittings	113,186	132,066	88,264	81,714	79,209
Total Other Steel Products	1,025,177	1,080,715	1,016,709	1,149,511	1,129,578
Total Steel Products	17,687,709	20,979,055	16,511,679	18,667,646	22,264,160
Iron Products and Ferroalloys:					
Bar iron, iron slabs and blooms, etc.	73	177	1,144	65	29
Cast iron soil pipe and fittings	514	1,040	742	807	1,467
Other cast iron pipe and fittings	8,745	7,841	5,842	8,701	9,828
Malleable cast iron pipe fittings	18,718	16,360	17,275	17,324	14,669
Castings and forgings	108,163	122,978	117,655	135,056	92,471
Pig iron	321,699	433,017	400,035	476,384	655,416
Sponge iron	50,471	75,710	65,793	104,154	97,641
Ferromanganese (manganese content)	379,167	516,651	473,399	638,724	527,926
Ferrosilicon (silicon content)	53,130	110,742	46,967	74,464	85,916
Ferrochromium (chromium content)	84,777	244,314	162,443	113,521	174,814
Other ferroalloys	56,836	121,495	75,046	89,708	143,949
Total Iron Products and Ferroalloys	1,082,293	1,650,325	1,366,341	1,658,908	1,804,126
Grand Total	18,770,002	22,629,380	17,878,020	20,326,554	24,068,286
Iron and Steel Scrap	474,190	561,766	558,142	760,278	793,948

Table 22
Imports of Iron and Steel Products

(Net tons)

Products	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc.	716,588	790,062	155,343	344,693	413,899	297,711	240,110	242,836	182,857	172,305
Wire rods	941,390	888,442	829,259	985,414	1,326,580	1,341,575	1,120,744	1,112,772	1,950,624	1,416,252
Structural shapes and piling	1,598,340	2,075,508	1,828,966	1,984,782	1,926,967	1,817,187	1,424,451	876,161	1,234,489	1,337,999
Plates	1,619,527	2,447,688	2,059,713	1,819,812	2,924,989	2,116,459	1,596,429	1,403,265	1,622,952	1,348,753
Rails and accessories	340,272	318,569	414,076	313,223	285,885	207,191	113,667	175,418	117,482	77,758
Bars and tool steel	793,051	986,081	859,989	1,127,414	1,337,014	1,363,907	935,790	923,705	1,869,093	1,700,742
Pipe and tubing	5,249,948	6,568,556	3,776,535	2,920,019	3,045,910	2,473,740	2,005,152	1,684,766	1,894,524	1,658,784
Wire and wire products	625,303	723,975	714,874	827,257	1,074,781	977,234	815,359	647,087	1,047,942	944,958
Tin mill products	337,903	386,255	377,542	344,851	426,566	465,134	324,470	414,860	327,321	473,671
Sheets and strip	4,440,210	4,713,204	4,478,673	6,850,670	8,371,991	8,246,474	5,708,433	4,531,572	5,722,754	6,018,460
Total Steel Mill Products	16,662,532	19,898,340	15,494,970	17,518,135	21,134,582	19,306,612	14,284,605	12,012,442	15,970,038	15,149,682
Other Steel Products	1,025,177	1,080,715	1,016,709	1,149,511	1,129,578	985,233	651,939	656,963	846,037	704,294
Total Steel Products	17,687,709	20,979,055	16,511,679	18,667,646	22,264,160	20,291,845	14,936,544	12,669,405	16,816,075	15,853,976
Iron Products and Ferroalloys	1,082,293	1,650,325	1,366,341	1,658,908	1,804,126	1,366,278	1,357,184	1,249,840	1,146,599	1,154,321
Grand Total	18,770,002	22,629,380	17,878,020	20,326,554	24,068,286	21,658,123	16,293,728	13,919,245	17,962,674	17,008,297

Table 23
Imports of Steel Mill Products

(Net tons)

Months	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
January	1,968,663	1,281,332	1,265,093	1,264,346	1,537,793	1,121,267	1,006,896	1,801,358	827,241	1,380,782
February	1,600,300	1,234,087	1,666,905	1,329,115	2,219,592	1,002,459	966,145	1,192,004	829,881	1,305,921
March	1,355,969	1,141,878	1,119,981	1,095,893	1,988,233	1,175,410	1,033,899	1,153,380	891,779	1,169,807
April	1,029,288	1,760,883	1,249,874	1,071,955	2,174,892	1,114,786	948,334	959,036	971,269	1,050,822
May	1,695,850	1,772,326	1,614,653	1,654,757	1,511,255	1,817,390	1,071,425	856,158	1,142,356	1,603,920
June	1,783,632	1,665,347	1,202,689	1,365,619	1,359,820	1,818,620	1,354,854	927,035	1,292,316	1,228,765
July	1,113,031	1,663,042	1,079,040	1,514,423	1,784,814	1,582,037	1,190,080	804,651	1,292,589	1,380,407
August	1,450,515	2,226,364	1,374,121	1,783,935	1,870,390	1,831,115	1,201,166	748,176	1,607,433	1,315,662
September	1,190,779	1,747,583	1,063,755	1,640,695	1,584,169	2,057,413	1,282,664	697,209	1,259,530	1,074,689
October	1,145,847	1,871,511	1,141,939	1,603,188	1,715,239	1,761,726	1,267,934	817,768	2,021,301	1,234,522
November	1,258,423	1,921,117	1,179,301	1,651,951	2,016,345	1,937,947	1,596,834	902,900	1,925,109	1,312,797
December	1,090,494	1,612,870	1,533,920	1,542,258	1,372,040	2,086,549	1,364,403	1,152,767	1,909,334	1,091,588
Total*	16,662,532	19,898,340	15,494,970	17,518,135	21,134,582	19,306,612	14,284,605	12,012,442	15,970,038	15,149,682

*Revised totals include adjustments not shown in monthly figures.

Table 24
Imports of Iron and Steel Products by Countries of Origin—1982
(Net tons)

Products	Grand Total	Latin America					Total Latin America
		Canada	Mexico	Vene- zuela	Brazil	Argen- tina	
Steel Mill Products:							
Ingots, blooms, billets, slabs, etc.	716,588	185,922	121	837	44,860	11,810	57,628
Wire rods	941,390	295,264	30,514	—	112,254	16,062	215,168
Structural shapes—plain 3" & over	1,483,481	151,954	12,259	—	3,861	102	16,222
Sheet piling	114,859	23,387	—	—	—	—	—
Plates	1,619,527	168,059	5,488	4,378	167,181	—	177,060
Rail and track accessories	320,341	46,525	1	—	—	—	1
Wheels and axles	19,931	3,048	—	—	3,373	—	3,373
Concrete reinforcing bars	51,676	2,504	3,920	—	22,594	—	26,514
Bar shapes under 3"	59,707	18,768	2,157	—	482	678	3,317
Bars — hot rolled — carbon	297,507	89,255	1,421	—	7,156	6,789	15,366
Bars — hot rolled — alloy	164,391	61,672	24	—	9,679	14	9,717
Bars — cold finished	218,306	18,746	99	—	13,685	2,527	16,316
Hollow drill steel	1,464	1,051	—	—	—	—	—
Standard pipe	705,517	45,625	21,411	3,013	16,074	3,166	43,664
Oil country goods	2,179,862	75,195	855	4,990	53,734	15,100	74,705
Line pipe	1,122,408	3,719	15,641	2,619	36,168	756	55,184
Mechanical tubing	49,424	3,570	—	—	—	—	—
Pressure tubing	48,594	1,321	163	—	3,160	—	3,323
Other pipe and tubing	1,144,143	135,489	2,927	2,327	15,985	3,880	25,229
Round and shaped wire	318,996	98,678	120	—	1,728	140	1,988
Flat wire	15,205	109	—	—	—	—	—
Barb ties	127	22	62	—	—	—	62
Galvanized wire fencing	8,448	3,791	2,316	—	—	—	2,316
Wire nails	264,365	73,652	402	—	—	216	954
Barbed wire	18,162	452	2,227	—	2,542	508	5,277
Black plate	119,507	3,227	—	—	—	—	—
Tin plate	216,243	19,893	1	—	—	—	1
Terne plate	2,153	—	—	—	—	—	—
Sheets — hot rolled	1,355,027	101,931	1,359	13,973	44,915	—	60,247
Sheets — cold rolled	1,706,699	58,943	49	104	45,123	103,499	149,101
Sheets — coated (incl. galvanized)	1,227,693	125,805	8,785	6	17	259	9,067
Sheets — coated — alloy	182	99	—	—	—	—	—
Strip — hot rolled	21,653	3,007	46	—	—	1,981	2,027
Strip — cold rolled	49,207	16,328	507	—	12	—	519
Strip — hot & cold rolled — alloy	22,361	6,381	—	—	53	—	53
Sheets — other — electric coated	57,388	867	—	—	—	—	—
Total steel mill products	16,662,532	1,844,199	112,875	32,247	604,636	167,487	974,399
Carbon	15,376,328	1,714,359	111,439	32,247	567,910	164,027	932,772
Alloy	1,083,683	120,122	762	—	31,458	3,222	35,447
Stainless	202,521	9,718	674	—	5,268	238	6,180

Country total may not add to regional total because of omissions of some countries.

Table 24 (continued)
Imports of Iron and Steel Products by Countries of Origin—1982

(Net tons)

	Europe													
	European Economic Community													
	United Kingdom	Netherlands	Belgium-Luxembourg	France	Fed Rep Germany	Italy	Greece	Total E.E.C.*	Sweden	Finland	Austria	Poland	Spain	Total Europe
Steel Mill Products:														
Ingot, blooms, billets, slabs, etc.	61,228	21,026	2,271	4,742	98,730	402	—	188,399	112,347	—	15	—	45,988	346,749
Wire rods	14,360	13,992	28,544	120,572	15,700	4,567	—	197,735	13,794	—	1,892	7,987	9,219	232,873
Structural shapes—plain 3" & over	84,704	2,640	317,125	29,173	124,927	416	—	558,985	1,257	—	197	973	173,198	734,610
Sheet piling	16,057	—	29,454	27,636	16,799	—	—	89,946	—	—	—	—	—	89,946
Plates	36,784	24,541	204,287	49,014	198,059	97,000	—	609,685	84,863	84,636	5,492	18,834	76,223	883,273
Rail and track accessories														
Wheels and axles	19,036	—	10,018	56,549	62,488	—	—	148,091	29	59	799	—	—	148,978
	74	21	—	8,585	244	7	—	8,931	29	—	78	—	—	9,038
Concrete reinforcing bars														
Bar shapes under 3"	1	—	—	2,639	76	8	—	2,724	—	—	—	—	3,806	6,530
	514	73	13,434	—	1,359	194	—	15,575	6	—	4	—	—	15,606
Bars—hot rolled—carbon	63,237	—	10,406	1,440	21,795	14	—	96,892	73	—	7	3	20,711	117,707
Bars—hot rolled—alloy	4,723	249	2	8,857	9,489	4,012	—	27,332	10,861	53	1,721	—	10,207	50,174
Bars—cold finished	13,774	116	532	43,965	12,380	5,439	—	76,209	2,766	2,599	2,512	424	20,693	105,897
Hollow drill steel	113	—	—	—	275	—	—	388	25	—	—	—	—	413
Standard pipe														
Oil country goods	8,037	17,008	9,820	8,905	41,951	21,178	—	107,096	975	—	611	1,638	10,011	126,551
Line pipe	72,354	54	35,183	30,191	264,762	278,731	67,070	748,348	9,604	—	37,904	36	51,637	872,492
Mechanical tubing	2,487	3,024	137	106,948	188,011	35,397	9,800	345,918	3,788	—	—	—	3,150	357,277
Pressure tubing	4,668	194	30	1,327	10,238	285	—	16,742	9,223	4	34	—	565	26,568
Other pipe and tubing	4,678	131	162	2,459	5,679	1,167	—	14,276	136	—	3	—	256	15,249
	20,278	562	2,433	21,386	79,945	65,399	—	190,078	6,328	—	44,758	1,387	12,105	266,525
Round and shaped wire														
Flat wire	12,044	2,311	45,762	29,842	15,425	3,480	—	109,070	5,717	249	768	397	1,925	119,711
Bale ties	1,086	38	2,509	2,857	829	1	—	7,320	2,049	1,391	28	—	4	10,792
Galvanized wire fencing	—	—	22	—	—	—	—	22	—	—	—	—	—	22
Wire nails	731	1	1,168	—	28	2	—	1,930	—	—	—	—	16	1,946
Barbed wire	338	163	231	277	163	145	—	1,898	7	—	238	9,460	18,991	40,493
	112	27	3,818	61	229	—	—	4,247	—	—	—	1,008	232	5,487
Black plate														
Tin plate	—	7,260	30	5,117	6,162	—	5,916	24,485	—	—	—	—	—	24,485
Terne plate	557	4,887	546	38,069	38,916	—	—	82,975	—	—	—	—	—	82,975
	—	—	—	159	—	—	—	159	—	—	—	—	—	159
Sheets—hot rolled														
Sheets—cold rolled	8,287	107,120	63,372	165,384	266,569	39,799	—	650,531	19,039	25,679	4,731	106	4,901	705,004
Sheets—coated (incl. galvanized)	20,872	162,901	135,933	160,439	419,847	47,808	20,134	968,024	5,788	2,599	335	—	56,199	1,039,652
Sheets—coated—alloy	11,977	7,118	9,608	44,699	149,545	37,192	—	260,139	2	—	10	—	26,797	286,948
	98	—	—	—	7	—	—	105	—	—	—	—	—	105
Strip—hot rolled														
Strip—cold rolled	177	—	2,053	62	1,905	25	—	4,222	86	48	20	—	46	4,438
Strip—hot & cold rolled—alloy	2,465	24	41	718	14,476	91	—	17,815	1,866	3,939	7	—	—	23,627
Sheets—other—electric coated	595	—	278	2,677	1,598	778	—	5,926	1,573	—	88	—	327	7,920
	40	—	231	2,623	11,524	—	—	14,418	—	—	—	—	—	14,418
Total steel mill products	486,436	375,481	829,440	977,372	2,080,130	643,627	102,920	5,596,636	292,231	121,256	102,252	42,253	547,207	6,774,638
Carbon														
Alloy	413,003	370,476	886,857	856,696	1,914,285	562,730	102,920	5,108,160	215,808	116,568	15,772	41,829	498,567	6,068,642
Stainless	61,342	4,570	38,536	89,978	131,613	75,933	—	401,976	58,172	2,698	85,296	424	32,297	581,664
	12,091	435	4,047	30,698	34,232	4,964	—	86,500	18,251	1,990	1,184	—	16,343	124,332

*Includes totals for Ireland & Denmark.

Table 24 (continued)
Imports of Iron and Steel Products by Countries of Origin—1982

(Net tons)

	Asia					Australia & Oceania		Africa	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Australia & Oceania	Republic of South Africa	Total Africa
Steel Mill Products:									
Ingots, blooms, billets, slabs, etc.	6	7	821	7,306	8,140	1,555	1,555	116,594	116,594
Wire rods	—	6,457	—	186,841	193,263	3,317	3,317	1,470	1,505
Structural shapes—plain 3" & over	—	12,575	373	448,776	461,759	570	570	118,366	118,366
Sheet piling	—	—	—	1,526	1,526	—	—	—	—
Plates	—	129,711	223	109,394	239,328	18,091	18,091	133,716	133,716
Rail and track accessories	—	1,491	—	123,254	124,745	—	—	92	92
Wheels and axles	2	—	26	4,092	4,120	—	—	352	352
Concrete reinforcing bars	—	6,839	1,901	4,830	13,570	—	—	2,558	2,558
Bar shapes under 3"	—	3,977	2,868	11,543	18,388	103	103	3,525	3,525
Bars—hot rolled—carbon	388	2,679	1,184	64,503	75,076	—	—	103	103
Bars—hot rolled—alloy	20	715	—	42,093	42,828	—	—	—	—
Bars—cold finished	120	3,552	509	71,092	75,290	—	—	2,067	2,067
Hollow drill steel	—	—	—	—	—	—	—	—	—
Standard pipe	22	259,702	87,127	106,589	458,092	8,413	8,413	23,172	23,172
Oil country goods	—	105,734	3,383	1,045,995	1,156,136	12	12	1,322	1,322
Line pipe	—	85,963	5,336	608,730	701,783	752	752	3,693	3,693
Mechanical tubing	—	346	20	18,452	18,819	155	155	312	312
Pressure tubing	—	1,468	174	26,213	28,024	219	219	458	458
Other pipe and tubing	147	106,818	10,307	574,554	693,220	516	516	23,164	23,164
Round and shaped wire	55	4,619	1,033	87,017	93,044	929	2,673	2,902	2,902
Flat wire	—	38	—	4,265	4,304	—	—	—	—
Bale ties	—	—	21	—	21	—	—	—	—
Galvanized wire fencing	—	—	—	67	67	—	328	—	—
Wire nails	27,762	100,018	1,169	19,803	149,211	—	23	32	32
Barbed wire	4	8,319	39	84	6,446	20	108	392	392
Black plate	—	120	—	91,505	91,625	—	—	170	170
Tin plate	—	104	—	111,026	111,132	1,874	1,874	368	368
Terne plate	—	—	—	1,994	1,994	—	—	—	—
Sheets—hot rolled	—	111,321	—	338,011	449,332	18,334	18,334	20,179	20,179
Sheets—cold rolled	—	68,629	112	316,528	385,269	31,966	31,966	41,768	41,768
Sheets—coated (incl. galvanized)	—	40,670	400	690,857	731,927	36,728	40,939	33,007	33,007
Sheets—coated—alloy	—	—	—	38	38	—	—	—	—
Strip—hot rolled	—	1,800	546	9,753	12,118	63	63	—	—
Strip—cold rolled	—	376	—	8,313	8,733	—	—	—	—
Strip—hot & cold rolled—alloy	—	6	—	7,999	8,007	—	—	—	—
Sheets—other—electric coated	—	20	—	42,083	42,103	—	—	—	—
Total steel mill products	28,526	1,062,076	117,574	5,185,138	6,409,468	123,617	130,011	529,782	529,817
Carbon	28,380	1,055,179	117,411	4,784,388	6,001,326	123,210	129,604	529,590	529,625
Alloy	146	664	71	345,164	346,226	224	224	—	—
Stainless	—	6,233	92	55,586	61,916	183	183	192	192

Table 24A

Imports of Iron and Steel Products by Countries of Origin—1982

(Net tons)

	Grand Total	Canada	Mexico	Latin America			Total Latin America
				Vene- zuela	Brazil	Argen- tina	
Other Steel Products:							
Structural shapes, fabricated	144,959	52,191	735	—	—	30	765
Shapes — cold formed	615	523	—	—	—	—	—
Sashes and frames	997	952	10	—	—	—	10
Fence or sign posts	2,805	139	1,738	—	328	—	2,066
Wire — nonmetallic covered	528	31	—	8	—	—	25
Wire rope	108,593	6,179	573	—	68	—	755
Wire strand	172,803	2,395	187	—	5,575	3,725	9,487
Welded wire fabric	19,933	14,017	3,206	—	1	—	3,207
Other nails and staples	23,530	1,583	—	—	3	—	756
Bale ties — strip	1,196	15	—	—	—	—	—
Bolts, nuts and rivets	421,661	39,359	1,820	—	1,053	392	3,266
Grinding balls	8,699	7,747	—	—	—	328	328
Blanks, nonrectangular flat rolled	4,016	927	137	—	1	—	138
Rigid conduit	1,656	26	—	—	—	—	—
Pipe and tube fittings	113,186	5,063	74	—	5,017	479	5,583
Total other steel products	1,025,177	131,147	8,480	8	12,046	4,954	26,386
Total steel products	17,687,709	1,975,346	121,355	32,255	616,682	172,441	1,000,785
Iron products & ferroalloys:							
Bar iron, iron slabs & blooms etc.	73	—	25	—	1	—	26
Cast iron soil pipe and fittings	514	255	7	—	—	—	7
Other cast iron pipe and fittings	8,745	3,113	31	—	—	—	31
Malleable cast iron pipe fittings	18,718	283	—	—	261	8	269
Castings and forgings	108,163	10,249	4,318	—	4,334	53	8,705
Pig iron	321,699	127,337	50	—	146,412	—	146,462
Sponge iron	50,471	48,032	—	—	—	—	—
Ferromanganese (manganese content)	379,167	14,320	22,782	—	23,606	—	46,388
Ferrosilicon (silicon content)	53,130	6,462	89	7,138	20,068	1,742	29,037
Ferrochromium (chromium content)	84,777	311	—	—	9,219	—	9,219
Other ferroalloys	56,836	1,449	6,534	—	11,199	—	18,178
Total Iron Products & Ferroalloys	1,082,293	211,811	33,836	7,138	215,100	1,803	256,322
Grand Total	18,770,002	2,187,157	155,191	39,393	831,782	174,244	1,259,107
Iron and steel scrap	474,190	389,663	85,806	1	—	1	72,857

Country total may not add to regional total because of omissions of some countries.

Table 24A (continued)
Imports of Iron and Steel Products by Countries of Origin—1982

(Net tons)

	Europe													
	European Economic Community													
	United Kingdom	Netherlands	Belgium-Luxembourg	France	Fed Rep Germany	Italy	Greece	Total E.E.C.*	Sweden	Finland	Austria	Poland	Spain	Total Europe
Other Steel Products:														
Structural shapes, fabricated	3,284	415	2,042	933	1,321	3,849	—	11,852	114	85	1,075	—	555	13,885
Shapes—cold formed	—	3	2	—	43	—	—	48	19	—	25	—	—	92
Sashes and frames	8	2	1	—	8	1	—	20	—	—	—	—	—	22
Fence or sign posts	4	—	—	—	1	1	—	8	—	—	—	—	—	6
Wire—nonmetallic covered	23	10	6	4	80	1	—	148	—	—	—	—	26	206
Wire rope	1,624	337	13,079	8,049	1,739	947	—	25,878	53	—	—	—	2,953	30,760
Wire strand	2,933	4,181	4,986	6,226	3,677	12,076	—	34,079	16	—	2,387	12	18,760	55,368
Welded wire fabric	562	496	911	3	98	—	—	2,070	—	—	—	—	316	2,387
Other nails and staples	306	42	60	1,165	3,445	1,121	—	6,139	1,983	—	1,731	53	510	10,513
Bale ties—strip	—	—	—	—	1,153	—	—	1,153	—	—	—	—	—	1,153
Bolts, nuts and rivets	599	2,308	38	389	5,604	6,416	—	15,469	527	1	65	3,377	1,254	25,355
Grinding balls	8	4	—	—	20	212	—	244	—	—	—	—	163	407
Blanks, nonrectangular flat rolled	56	3	20	201	260	—	—	540	22	—	13	—	822	1,397
Rigid conduit	50	—	3	95	505	4	—	657	—	—	—	—	—	657
Pipe and tube fittings	8,240	524	122	7,216	6,511	10,804	2	33,426	152	—	710	—	2,954	38,262
Total other steel products	17,897	8,325	21,270	24,281	24,465	35,432	2	131,729	2,686	86	6,006	3,442	28,313	180,470
Total steel products	504,133	383,806	950,710	1,001,653	2,104,595	679,059	102,922	5,728,385	295,117	121,342	108,258	45,695	575,520	6,955,108
Iron products & ferroalloys:														
Bar iron, iron slabs & blooms etc.	—	—	—	—	—	—	—	—	—	—	—	—	5	5
Cast iron soil pipe and fittings	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Other cast iron pipe and fittings	1,317	127	1	10	79	1	—	1,535	1	—	1	—	—	1,537
Malleable cast iron pipe fittings	245	—	—	38	91	—	—	374	—	—	—	—	—	378
Castings and forgings	6,024	171	27	3,776	5,945	27,498	—	43,634	452	—	37	215	4,155	49,215
Pig iron	—	—	1,202	1,624	—	—	—	2,826	—	—	—	—	—	2,831
Sponge iron	139	—	56	19	214	1	—	429	388	—	—	—	—	819
Ferromanganese (manganese content)	12,585	—	367	80,362	1,032	—	—	94,346	—	—	—	—	—	113,219
Ferrosilicon (silicon content)	—	—	150	4,474	1,171	135	—	5,930	—	—	—	—	215	14,586
Ferrochromium (chromium content)	15	—	—	—	2,623	345	—	2,983	3,044	—	—	—	—	20,044
Other ferroalloys	260	—	379	1,735	131	—	—	2,505	—	—	201	—	583	12,961
Total Iron Products & Ferroalloys	20,585	298	2,182	92,038	11,287	27,980	—	154,563	3,885	—	239	215	4,958	215,596
Grand Total	524,718	384,104	952,892	1,093,691	2,115,882	707,039	102,922	5,882,928	299,002	121,342	108,497	45,910	580,478	7,170,704
Iron and steel scrap	3,965	1	56	208	1,171	—	—	5,382	325	—	25	—	80	6,180

*Includes totals for Ireland & Denmark.

Table 24 (continued)
Imports of Iron and Steel Products by Countries of Origin—1982

(Net tons)

	Asia					Australia & Oceania		Africa	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Australia & Oceania	Republic of South Africa	Total Africa
Other Steel Products:									
Structural shapes, fabricated	94	4,195	281	73,375	77,945	118	173	—	—
Shapes—cold formed	—	—	—	—	—	—	—	—	—
Sashes and frames	—	4	9	—	13	—	—	—	—
Fence or sign posts	—	13	3	1	35	—	—	559	559
Wire—nonmetallic covered	—	168	75	21	265	—	1	—	—
Wire rope	49	56,624	1,366	11,092	69,296	—	1	1,602	1,602
Wire strand	228	26,100	369	60,361	87,136	44	44	18,373	18,373
Welded wire fabric	177	—	—	143	320	—	2	—	—
Other nails and staples	1,006	6,596	391	2,570	10,655	19	22	1	1
Bale ties—strip	—	—	—	28	28	—	—	—	—
Bolts, nuts and rivets	18,288	15,614	75,912	238,304	352,714	497	497	465	470
Grinding balls	—	—	—	198	198	—	—	19	19
Blanks, nonrectangular flat rolled	—	49	—	1,505	1,554	—	—	—	—
Rigid conduit	—	715	22	100	973	—	—	—	—
Pipe and tube fittings	1,594	5,353	5,342	45,954	63,057	1,197	1,197	24	24
Total other steel products	21,436	115,431	83,770	433,652	654,189	1,875	1,937	21,043	21,048
Total steel products	49,962	1,177,507	201,344	5,618,790	7,073,657	125,492	131,948	550,825	550,865
Iron products & ferroalloys:									
Bar iron, iron slabs & blooms etc	—	—	—	—	—	42	42	—	—
Cast iron soil pipe and fittings	81	56	8	—	251	—	—	—	—
Other cast iron pipe and fittings	33	873	810	47	3,058	1,006	1,006	—	—
Malleable cast iron pipe fittings	—	1,946	3,976	8,396	17,778	—	—	10	10
Castings and forgings	2,144	1,656	5,293	2,285	39,081	36	91	783	822
Pig iron	17,116	—	2	—	17,118	8,506	8,506	19,445	19,445
Sponge iron	—	6	—	1,614	1,620	—	—	—	—
Ferromanganese (manganese content)	—	—	—	4,566	11,770	4,759	4,759	188,711	188,711
Ferrosilicon (silicon content)	4	—	—	2	6	—	—	3,039	3,039
Ferrochromium (chromium content)	3,613	—	—	166	25,370	—	—	29,833	29,833
Other ferroalloys	33	—	139	2,060	4,957	7,806	11,019	8,272	8,272
Total Iron Products & Ferroalloys	23,024	4,537	10,228	19,136	121,009	22,155	25,423	250,093	250,132
Grand Total	72,986	1,182,044	211,572	5,637,926	7,194,666	147,647	157,371	600,918	600,997
Iron and steel scrap	—	179	—	247	600	4,578	4,870	20	20

Table 25
Imports of Steel Mill Products By Countries of Origin
(Net Tons)

	1982			1981			1980			1979			1978		
	Net Tons	% Total	% Apparent Supply**	Net Tons	% Total	% Apparent Supply**	Net Tons	% Total	% Apparent Supply**	Net Tons	% Total	% Apparent Supply**	Net Tons	% Total	% Apparent Supply**
Canada	1,844,199	11.1	2.4	2,898,795	14.6	2.7	2,369,501	15.3	2.5	2,353,883	13.4	2.0	2,363,856	11.2	2.0
Mexico	112,875	0.7	0.1	40,904	0.2	...	67,395	0.4	0.1	159,627	0.9	0.1	213,973	1.0	0.2
Brazil	604,636	3.6	0.8	547,884	2.8	0.5	457,724	3.0	0.5	432,238	2.5	0.4	292,683	1.4	0.3
Argentina	167,487	1.0	0.2	61,121	0.3	0.1	18,253	0.1	...	37,579	0.2	...	239,119	1.1	0.2
Total Latin America	974,399	5.8	1.3	782,156	3.9	0.8	629,938	4.1	0.7	647,069	3.7	0.6	772,828	3.6	0.7
United Kingdom	486,436	2.9	0.6	573,676	2.9	0.5	236,784	1.5	0.2	433,727	2.5	0.4	671,765	3.2	0.6
Netherlands	375,481	2.2	0.5	462,572	2.3	0.4	340,302	2.2	0.4	499,981	2.8	0.4	685,622	3.2	0.6
Belgium-Luxembourg	929,440	5.6	1.2	1,108,593	5.6	1.1	870,058	5.6	0.9	956,405	5.5	0.8	1,238,325	5.9	1.1
France	977,372	5.9	1.3	1,289,365	6.5	1.2	966,987	6.2	1.0	1,340,670	7.7	1.2	1,758,832	8.8	1.5
West Germany	2,080,130	12.5	2.7	2,164,352	10.9	2.1	1,298,068	8.4	1.4	1,868,076	10.7	1.6	2,294,516	10.9	1.9
Italy	643,627	3.9	0.8	768,121	3.9	0.7	174,054	1.1	0.2	291,671	1.7	0.3	788,684	3.7	0.7
Total EEC*	5,596,636	33.6	7.3	6,482,137	32.6	6.1	3,886,777	25.1	4.1	5,405,389	30.9	4.7	7,463,394	35.3	6.4
Sweden	292,231	1.8	0.4	169,503	0.9	0.2	91,921	0.6	0.1	194,031	1.1	0.2	227,140	1.1	0.2
Finland	121,256	0.7	0.2	124,545	0.6	0.1	36,463	0.2	...	145,985	0.8	0.1	213,844	1.0	0.2
Poland	42,253	0.3	0.1	167,498	0.8	0.2	119,498	0.8	0.1	117,121	0.7	0.1	364,066	1.7	0.3
Spain	547,207	3.3	0.7	729,798	3.7	0.7	462,430	3.0	0.5	380,190	2.2	0.3	665,251	3.1	0.6
Romania	36,730	0.2	...	307,364	1.5	0.3	57,581	0.4	0.1	38,555	0.2	...	107,058	0.5	0.1
Total Europe	6,774,638	40.7	8.9	8,077,373	40.6	7.7	4,743,912	30.6	5.0	6,392,770	36.5	5.6	9,211,103	43.6	7.9
Japan	5,185,138	31.1	6.8	6,220,083	31.3	5.9	6,006,813	38.8	6.3	6,336,003	36.2	5.5	6,487,166	30.7	5.6
Korea Republic	1,062,076	6.4	1.4	1,218,381	6.1	1.2	1,039,895	6.7	1.1	985,666	5.6	0.9	1,052,122	5.0	0.9
Taiwan	117,574	0.7	0.2	131,192	0.7	0.1	85,949	0.6	0.1	108,515	0.6	0.1	250,369	1.2	0.2
Republic of So. Africa	529,782	3.2	0.7	371,098	1.9	0.4	440,661	2.8	0.5	485,307	2.8	0.4	694,986	3.3	0.6
Total Asia & Africa	6,939,285	41.6	9.1	8,011,266	40.3	7.6	7,619,964	49.2	8.0	7,965,000	45.5	6.9	8,606,107	40.7	7.4
Australia & Oceania	130,011	0.8	0.2	128,750	0.6	0.1	131,655	0.8	0.1	159,413	0.9	0.1	180,688	0.0	0.1
Total Imports of Steel Mill Products	16,662,532	100.0	21.8	19,898,340	100.0	18.9	15,494,970	100.0	16.3	17,518,135	100.0	15.2	21,134,582	100.0	18.1

*Includes total for Denmark and Ireland. Includes Greece in 1981 and 1982.

Country detail may not add to regional total because of omissions of some countries.

**As developed in table 1A of this Report.

Table 26
Imports of Iron and Steel Products by Customs District—1982

(Net Tons)

Products	Grand Total	ATLANTIC COAST										Total	
		Boston	Providence Brdgport	New York City	Phila. Wash., DC	Norfolk	Wil- mington	Charles ton	Savannah	Tampa	Miami		
Steel Mill Products													
Ingots, blooms, billets, slabs, etc.	716,588	5	164	79,616	615	17,652	—	—	4	189	—	—	98,245
Wire rods	941,390	1,388	48,729	15,346	24,809	26,208	616	6,604	6,800	8,252	50,843	434	190,029
Structural shapes—plain 3" & over	1,483,481	367	87,812	10,952	36,943	33,501	1,099	9,166	7,498	48,143	43,306	3,312	282,099
Sheet piling	114,859	—	16,030	295	—	911	—	224	—	3,632	3,411	3,629	28,132
Plates	1,619,527	1	67,076	5,615	62,371	7,818	474	16,519	891	29,028	45,900	2,481	238,174
Rail and track accessories	320,341	1,009	1,247	99	15,031	24,045	9,453	—	5	1,107	—	144	52,140
Wheels and axles	19,931	140	86	1,842	1,098	687	85	—	—	21	711	—	4,670
Concrete reinforcing bars	51,676	—	—	8	—	13	—	—	—	—	55	8	84
Bar shapes under 3"	59,707	93	4,019	1,206	1,890	667	5	231	153	527	727	51	9,569
Bars—Hot rolled—Carbon	297,507	131	5,805	2,017	5,058	1,786	—	338	5,927	1,723	795	114	23,694
Bars—Hot rolled—Alloy	164,391	941	2,404	3,860	7,047	8,377	1,506	658	1,086	1,142	102	61	27,184
Bars—Cold Finished	218,306	1,471	6,206	20,533	21,857	18,686	464	49	2,132	963	1,566	360	74,287
Hollow drill steel	1,464	—	—	112	—	21	—	—	—	—	—	5	138
Standard pipe	705,517	380	15,041	1,256	47,678	1,185	669	8,534	9,570	10,175	21,587	1,552	117,627
Oil country goods	2,179,862	—	—	122	1,382	881	2	258	1,065	163	2,235	415	6,523
Line pipe	1,122,408	18	—	583	4,493	263	82	330	294	3,213	1,719	106	11,101
Mechanical tubing	49,424	76	2,738	3,722	5,152	10,224	368	1,289	280	4,170	154	—	28,173
Pressure tubing	48,594	—	503	3,115	8,331	965	82	11	224	755	209	55	14,250
Other pipe and tubing	1,144,143	59	8,413	5,182	40,674	3,463	902	7,689	3,151	10,428	27,720	1,219	108,900
Round and shaped wire	318,996	2,280	882	36,685	6,535	15,180	2,364	5,584	4,030	3,346	1,322	3,295	81,503
Flat wire	15,205	1,178	420	4,139	109	781	152	1	688	167	73	55	7,763
Bale ties	127	—	—	2	—	—	—	—	—	—	—	—	2
Galvanized wire fencing	8,448	34	—	—	40	37	222	111	57	—	436	13	950
Wire nails	264,365	8,265	773	17,341	7,098	10,154	1,015	9,170	2,268	5,532	4,626	5,376	71,618
Barbed wire	18,162	262	—	267	302	290	143	832	246	956	1,784	198	5,280
Black plate	119,507	—	5,651	5,507	34,480	518	—	433	1	707	157	—	47,454
Tin plate	216,243	—	2,024	59	15,817	8,094	—	329	270	6,431	5,767	—	38,791
Terne plate	2,153	—	—	—	64	—	—	—	—	—	—	—	64
Sheets—Hot rolled	1,355,027	73	87,256	1,051	79,840	457	2,015	5,550	357	4,540	12,130	1,165	194,111
Sheets—Cold rolled	1,706,699	7,841	135,018	62,380	135,318	8,033	601	15,656	11,341	10,685	2,837	5,456	359,168
Sheets—Coated (incl galvanized)	1,227,693	—	25,326	30	92,770	4,637	1,102	19,262	18,621	22,229	34,670	17,984	235,231
Sheets—Coated—Alloy	182	—	—	—	—	—	—	—	—	—	—	—	—
Strip—Hot rolled	21,653	290	1,358	129	907	451	—	118	76	36	1,238	98	5,001
Strip—Cold rolled	49,207	695	5,309	7,243	824	1,017	134	325	1,544	58	240	3	17,562
Strip—Hot & cold rolled—Alloy	22,361	856	499	3,078	1,544	1,310	130	59	435	98	47	5	8,161
Sheets—Other—Electric coated	57,388	3	190	151	7,729	411	—	357	—	249	—	—	9,190
Total Steel Mill Products	16,662,532	27,856	530,979	293,543	667,806	208,723	23,685	109,687	79,014	178,665	266,567	47,926	2,434,451
Carbon	15,376,328	14,289	511,306	229,200	605,676	148,413	17,590	107,179	70,815	158,315	264,548	47,760	2,185,091
Alloy	1,083,683	3,275	12,945	24,566	33,664	48,730	5,009	1,815	7,954	8,075	1,283	111	147,427
Stainless	202,521	10,292	6,728	39,777	28,466	11,580	1,086	693	245	2,275	736	55	101,233

Table 26 (continued)
Imports of Iron and Steel Products by Customs District—1982

Products	GULF COAST-MEXICAN BORDER							Total
	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	
Steel Mill Products								
Ingots, blooms, billets, slabs, etc.	6,108	14,302	—	34,735	1,869	121	—	57,135
Wire rods	19,288	74,224	1,985	87,940	—	11,218	19	194,674
Structural shapes—plain 3" & over	35,653	155,277	—	251,163	3,072	10,760	248	456,173
Sheet piling	1,509	11,870	—	20,105	—	—	—	33,484
Plates	65,995	209,944	—	351,781	1,463	5,625	—	635,808
Rail and track accessories	47,920	14,329	—	11,693	—	370	—	74,312
Wheels and axles	1,820	780	—	6,493	—	5	—	9,098
Concrete reinforcing bars	—	—	—	2,639	—	6,854	653	10,146
Bar shapes under 3"	616	737	—	4,074	2	600	90	6,119
Bars—Hot rolled—Carbon	1,111	13,628	—	13,211	—	527	40	28,517
Bars—Hot rolled—Alloy	—	16,822	—	31,563	—	24	—	48,409
Bars—Cold Finished	77	7,370	—	52,202	23	63	21	59,756
Hollow drill steel	—	275	—	—	—	—	—	275
Standard pipe	3,130	57,985	—	210,181	3,425	15,068	355	290,144
Oil country goods	3,747	140,140	815	1,742,781	5,844	883	3	1,894,213
Line pipe	28,105	104,919	—	596,235	2,038	14,389	61	745,747
Mechanical tubing	323	852	—	7,618	—	—	—	8,793
Pressure tubing	16	18,856	—	6,840	156	163	—	26,031
Other pipe and tubing	2,247	79,737	239	558,016	7,037	2,316	612	650,204
Round and shaped wire	4,072	25,545	185	12,743	2	67	35	42,649
Flat wire	34	625	—	453	—	—	—	1,112
Bale ties	—	—	—	—	—	—	—	—
Galvanized wire fencing	82	159	—	77	—	2,314	—	2,632
Wire nails	932	20,961	—	25,656	61	456	2	28,068
Barbed wire	449	2,311	—	2,643	84	2,223	4	7,714
Black plate	—	12,125	—	5,728	—	—	—	17,853
Tin plate	2,573	8,430	—	1,384	—	1	—	12,388
Terne plate	—	559	—	—	—	—	—	559
Sheets—Hot rolled	27,713	62,107	—	264,207	651	1,359	—	356,037
Sheets—Cold rolled	13,074	96,551	—	139,399	1,556	300	253	251,133
Sheets—Coated (incl galvanized)	2,138	144,808	—	200,296	—	8,785	—	356,027
Sheets—Coated—Alloy	—	—	—	—	—	—	—	—
Strip—Hot rolled	—	1,089	—	2,465	—	46	—	3,600
Strip—Cold rolled	73	1,496	—	2,968	—	456	—	4,993
Strip—Hot & cold rolled—Alloy	—	1,244	—	54	—	—	—	1,298
Sheets—Other—Electric coated	61	6,151	—	6,103	1	—	—	12,316
Total Steel Mill Products	269,886	1,306,208	3,224	4,653,446	27,284	84,993	2,396	6,347,417
Carbon	253,195	1,203,959	2,934	4,111,336	24,466	83,532	2,316	5,681,738
Alloy	16,096	95,440	290	517,339	2,795	787	80	632,827
Stainless	575	6,809	—	24,771	23	674	—	32,852

Table 26 (continued)
Imports of Iron and Steel Products by Customs District—1982

Products	PACIFIC COAST						OFF SHORE				
	San Diego	Los Angeles	San Francisco	Portland	Seattle	Total	Virgin Islands	Anchorage	Honolulu	San Juan	Total
Steel Mill Products											
Ingots, blooms, billets, slabs, etc.	—	325,056	641	13	8,848	334,558	—	—	—	—	—
Wire rods	—	70,969	23,013	363	14,801	109,146	—	—	—	1,682	1,682
Structural shapes—plain 3" & over	2,481	222,811	156,982	57,194	38,137	477,605	—	1,251	736	4,194	6,181
Sheet piling	—	3,904	4,605	3,010	7,637	19,156	—	—	445	438	883
Plates	—	199,614	34,003	36,281	36,633	306,531	454	1,234	132	3,880	5,700
Rail and track accessories	1	33,240	3,536	46,722	40,397	123,896	—	—	29	—	29
Wheels and axles	22	21	58	167	705	973	—	—	—	—	—
Concrete reinforcing bars	220	5,880	3,327	23	3	9,453	27	494	1,179	27,791	29,491
Bar shapes under 3"	1,796	14,855	1,976	1,391	1,003	21,021	19	147	160	2,072	2,398
Bars—Hot rolled—Carbon	854	28,615	8,450	5,330	3,859	47,108	47	—	434	13,235	13,716
Bars—Hot rolled—Alloy	—	3,363	1,173	283	359	5,178	—	—	3	26	29
Bars—Cold Finished	15	31,675	4,038	3,241	3,390	42,359	—	—	—	733	733
Hollow drill steel	—	—	—	—	—	—	—	1	—	—	1
Standard pipe	41	149,668	34,676	19,109	12,657	216,151	—	428	2,204	9,017	11,649
Oil country goods	—	129,112	6,808	10,032	24,188	170,140	—	28,320	27	617	28,964
Line pipe	—	275,351	12,439	7,088	11,892	306,770	—	38,206	59	605	38,870
Mechanical tubing	—	1,829	2,114	196	2,376	6,515	—	190	9	206	405
Pressure tubing	—	3,571	974	168	394	5,107	—	—	—	—	—
Other pipe and tubing	—	72,927	27,631	34,681	23,957	159,196	—	64,917	559	4,716	70,192
Round and shaped wire	62	13,534	2,424	2,068	26,956	45,044	—	7	561	10,016	10,584
Flat wire	—	1,248	502	490	214	2,454	—	—	—	642	642
Bale ties	62	19	—	—	17	98	—	—	—	6	6
Galvanized wire fencing	2	14	19	9	290	334	—	—	88	123	211
Wire nails	—	21,719	21,580	3,037	17,256	63,592	2	—	289	3,883	4,174
Barbed wire	—	765	1,023	642	295	2,725	—	—	104	1,877	1,781
Black plate	—	4,738	8,658	—	—	13,396	—	—	—	—	—
Tin plate	—	23,270	50,995	173	1	74,439	—	—	27,678	20,545	48,223
Terne plate	—	299	21	—	—	320	—	—	—	—	—
Sheets—Hot rolled	3	304,298	46,834	35,358	14,305	400,798	—	1,835	249	1,384	3,468
Sheets—Cold rolled	—	299,435	119,435	5,525	6,650	431,045	—	—	16	3,510	3,526
Sheets—Coated (incl galvanized)	—	135,887	49,929	54,505	48,709	289,030	472	206	3,350	10,995	15,023
Sheets—Coated—Alloy	—	—	—	—	38	38	—	—	—	—	—
Strip—Hot rolled	—	4,079	305	453	236	5,073	—	3,396	65	1,103	4,564
Strip—Cold rolled	51	2,064	897	676	1,346	5,034	—	—	5	1,608	1,613
Strip—Hot & cold rolled—Alloy	—	1,138	2,545	374	416	4,473	53	—	—	246	299
Sheets—Other—Electric coated	—	8,476	6,890	—	—	15,366	—	—	—	5,169	5,169
Total Steel Mill Products	5,610	2,393,444	638,501	328,602	347,965	3,714,122	1,074	140,632	38,381	130,119	310,206
Carbon	5,609	2,316,567	629,088	319,886	336,994	3,608,144	1,021	140,434	38,355	128,079	307,889
Alloy	1	47,418	6,761	6,860	9,261	70,301	—	198	7	1,967	2,172
Stainless	—	29,459	2,652	1,856	1,710	35,677	53	—	19	73	145

Table 26 (continued)
Imports of Iron and Steel Products by Customs District—1982

(Net Tons)

Products	GREAT LAKES-CANADIAN BORDER											St. Louis	Total
	Port-land	St. Albans	Ogdens-burg	Buffalo	Great Falls	Pem-bina	Duluth Mineapolis	Mil-waukee	Detroit	Chicago	Cleveland		
Steel Mill Products													
Ingot, blooms, billets, slabs, etc.	—	74	12,879	3,169	—	—	—	12,010	163,534	16,933	18,049	2	226,650
Wire rods	—	3,916	75,046	83,435	—	1	66	25	166,578	63,304	53,488	—	445,859
Structural shapes—plain 3" & over	94	15,507	14,305	70,236	67	13,344	48	4,597	70,743	53,892	18,019	571	261,423
Sheet piling	—	271	2,930	207	—	—	—	—	23,481	3,232	3,083	—	33,204
Plates	454	5,328	7,415	57,139	49	52	4,183	1,137	163,892	127,973	65,469	223	433,314
Rail and track accessories	2,152	4,092	406	9,368	89	643	13,810	—	30,170	6,254	2,980	—	69,964
Wheels and axles	84	432	596	133	—	693	—	—	1,103	1,989	160	—	5,190
Concrete reinforcing bars	32	328	455	481	—	—	—	—	1,204	1	1	—	2,502
Bar shapes under 3"	5	802	1,171	4,949	—	269	—	—	11,917	855	632	—	20,600
Bars—Hot rolled—Carbon	22	2,585	4,048	26,951	—	11,439	45	2	73,721	30,804	34,855	—	184,472
Bars—Hot rolled—Alloy	—	12	321	12,027	730	2,529	36	156	51,334	13,276	3,170	—	83,591
Bars—Cold Finished	19	1,209	262	11,357	1	7	846	53	14,388	11,306	1,723	—	41,171
Hollow drill steel	—	28	—	608	—	—	—	—	414	—	—	—	1,050
Standard pipe	5	2,098	9,018	11,946	1,881	251	180	—	22,191	22,052	317	7	69,946
Oil country goods	20	52	144	301	5,946	108	—	—	72,337	1,057	57	—	80,022
Line pipe	59	159	368	984	1,587	147	2	—	2,807	13,807	—	—	19,920
Mechanical tubing	—	283	6	2,077	6	4	26	5	1,880	1,242	5	4	5,538
Pressure tubing	26	1	204	147	—	3	—	92	1,003	466	1,263	1	3,206
Other pipe and tubing	249	2,967	3,166	37,599	13,252	2,696	12,812	20	76,283	4,356	2,250	1	155,651
Round and shaped wire	3,548	22,252	25,868	19,546	22	23	42	980	28,505	36,251	1,798	381	139,216
Flat wire	347	82	1,389	14	—	—	—	37	514	729	123	—	3,234
Bale ties	21	—	—	—	—	—	—	—	—	—	—	—	21
Galvanized wire fencing	43	31	2,492	756	—	—	718	—	256	23	—	—	4,321
Wire nails	3,095	13,539	27,221	7,391	21	49	158	—	13,161	12,263	15	—	76,913
Barbed wire	—	26	222	300	—	—	—	—	114	—	—	—	662
Black plate	—	1	47	975	—	—	—	—	6,142	4,560	29,079	—	40,804
Tin plate	7	36	708	9,030	—	—	—	—	8,533	16,825	7,055	208	42,402
Terne plate	—	—	—	—	—	—	—	—	—	1,154	56	—	1,210
Sheets—Hot rolled	5	2,332	1,953	15,408	96	—	3,926	—	143,840	132,793	95,388	4,519	400,260
Sheets—Cold rolled	—	2,976	4,532	25,170	442	—	1,272	197	188,034	359,931	40,558	2,715	625,827
Sheets—Coated (incl galvanized)	8	144	26	31,348	—	897	8,188	—	183,897	68,882	36,689	903	330,982
Sheets—Coated—Alloy	—	—	—	137	—	—	—	—	—	7	—	—	144
Strip—Hot rolled	—	362	279	1,109	—	—	—	42	1,470	142	11	—	3,415
Strip—Cold rolled	—	80	1,060	10,917	32	—	—	1	4,258	1,903	1,724	—	19,975
Strip—Hot & cold rolled—Alloy	—	2	421	2,044	—	—	—	—	5,258	423	82	—	8,230
Sheets—Other—Electric coated	—	—	1,356	480	—	2	—	11	726	12,872	—	—	15,447
Total Steel Mill Products	10,295	82,007	200,313	457,741	24,221	33,157	46,358	19,365	1,533,688	1,021,557	418,099	9,535	3,856,336
Carbon	9,891	81,370	193,129	429,398	19,105	29,146	46,162	6,781	1,424,147	958,396	386,529	9,412	3,593,466
Alloy	395	95	2,317	25,478	5,072	3,990	123	12,364	103,625	46,196	31,295	6	230,956
Stainless	9	542	4,867	2,865	44	21	73	220	5,916	16,965	275	117	31,914

Table 26A
Imports of Iron and Steel Products by Customs District—1982

(Net Tons)

Products	ATLANTIC COAST												Total
	Grand Total	Boston	Providence Brdgport	New York City	Phila.	Baltimore/ Wash., DC	Norfolk	Wil- mington	Charle- ston	Savannah	Tampa	Miami	
Other Steel Products													
Structural shapes, fabricated	144,959	1,328	42	1,566	5,648	2,360	1,296	1	354	2,771	11,415	146	26,927
Shapes—Cold formed	615	62	—	18	—	—	—	—	—	9	—	—	89
Sashes and frames	997	2	—	14	1	4	—	—	—	—	—	3	24
Fence or sign posts	2,805	—	—	3	—	—	—	1	—	—	—	367	371
Wire—nonmetallic covered	528	2	—	52	16	54	36	—	—	6	8	9	183
Wire rope	108,593	2,419	13	6,758	709	5,467	8,146	8,428	5,112	2,285	2,018	649	42,004
Wire strand	172,803	3,421	221	14,573	5,374	8,733	3,259	3,878	3,730	8,343	5,382	9,309	66,223
Welded wire fabric	19,933	25	—	431	83	10	11	—	13	—	163	9	745
Other nails and staples	23,530	594	328	2,327	477	497	141	1,961	693	813	1,212	686	9,729
Bale ties—Strip	1,196	—	—	—	—	—	—	—	—	—	—	—	—
Bolts, nuts and rivets	421,661	8,194	1,727	61,222	11,130	38,193	2,779	3,110	3,505	16,034	4,870	2,670	153,434
Grinding balls	8,669	—	—	178	14	12	—	—	—	—	—	—	204
Blanks, nonrectangular flat rolled	4,016	5	7	712	198	—	—	—	—	—	—	1	923
Rigid conduit	1,656	23	15	734	107	12	—	—	—	—	—	—	891
Pipe and tube fittings	113,186	574	49	7,922	1,010	2,370	498	95	36	1,222	3,476	194	17,446
Total Other Steel Products	1,025,177	16,649	2,402	96,510	24,767	57,712	16,166	17,474	13,443	31,483	28,544	14,043	319,193
Total Steel Products	17,687,709	44,505	533,381	390,053	692,573	266,435	39,851	127,161	92,457	210,148	295,111	61,969	2,753,644
Iron Products & Ferroalloys													
Bar iron, iron slabs & blooms, etc.	73	—	—	—	—	1	—	—	—	—	—	—	1
Cast iron soil pipe and fittings	514	—	—	87	3	—	—	—	—	—	—	—	90
Other cast iron pipe and fittings	8,745	354	—	528	839	261	15	—	38	134	222	3	2,394
Malleable cast iron pipe fittings	18,718	377	—	4,727	60	532	89	—	37	1,117	911	94	7,944
Castings and forgings	108,163	774	576	15,918	3,194	7,027	1,681	332	735	1,984	31	200	32,452
Pig iron	321,699	—	—	—	45,984	—	—	—	—	4,344	—	—	50,328
Sponge iron	50,471	34	—	262	523	101	—	—	—	4	14	—	938
Ferromanganese (manganese content)	379,167	—	—	100	22,304	30,323	—	—	—	—	—	—	52,727
Ferrosilicon (silicon content)	53,130	—	672	152	1,325	4,023	13	—	192	139	—	—	6,516
Ferrochromium (chromium content)	84,777	—	858	42	29,093	4,150	—	—	—	—	—	—	34,143
Other Ferroalloys	56,836	—	—	173	5,041	14,247	—	—	157	—	—	—	19,618
Total Iron Products & Ferroalloys	1,082,293	1,539	2,106	21,989	108,366	60,665	1,798	332	1,159	7,722	1,178	297	207,151
Grand Total	18,770,002	46,044	535,487	412,042	800,939	327,100	41,649	127,493	93,616	217,870	296,289	62,266	2,960,795
Iron and steel scrap	474,190	5	—	481	1,124	202	43	—	—	—	46	565	2,466

Table 26A (continued)

Imports of Iron and Steel Products by Customs District—1982

(Net Tons)

Products	GULF COAST-MEXICAN BORDER							Total
	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	
Other Steel Products								
Structural shapes, fabricated	804	1,625	—	15,561	12	172	11	18,185
Shapes—Cold formed	—	—	—	1	—	—	—	1
Sashes and frames	—	—	—	—	3	11	—	14
Fence or sign posts	—	63	—	472	—	1,737	2	2,274
Wire—nonmetallic covered	—	16	—	28	—	—	—	44
Wire rope	2,723	15,387	19	22,992	—	394	22	41,537
Wire strand	4,572	10,238	—	51,772	8	186	10	66,786
Welded wire fabric	6	34	—	114	—	3,175	—	3,329
Other nails and staples	367	1,442	—	1,327	15	—	1	3,152
Bale ties—Strip	—	—	—	28	—	—	—	28
Bolts, nuts and rivets	9,894	7,713	57	28,994	1,450	1,557	63	49,728
Grinding balls	—	—	—	2	—	—	—	2
Blanks, nonrectangular flat rolled	17	984	—	86	—	113	—	1,200
Rigid conduit	—	2	—	—	—	—	—	2
Pipe and tube fittings	925	5,443	—	52,349	135	107	—	58,959
Total Other Steel Products	19,308	42,947	76	173,726	1,623	7,452	109	245,241
Total Steel Products	289,174	1,349,155	3,300	4,827,172	28,907	92,445	2,505	6,592,658
Iron Products & Ferroalloys								
Bar iron, iron slabs & blooms, etc.	—	—	—	—	42	25	—	67
Cast iron soil pipe and fittings	—	—	—	113	—	—	—	113
Other cast iron pipe and fittings	—	76	—	397	169	25	—	667
Malleable cast iron pipe fittings	1	585	—	2,804	69	—	15	3,474
Castings and forgings	956	4,331	—	34,541	100	325	1,277	41,530
Fig iron	1,629	26,085	—	33,503	—	8,533	—	69,750
Sponge iron	40	—	—	—	—	—	—	40
Ferromanganese (manganese content)	9,645	234,272	—	6,241	—	1,233	223	251,614
Ferrosilicon (silicon content)	5,149	20,713	759	4,300	—	—	89	31,510
Ferrochromium (chromium content)	14	43,525	—	2,658	—	—	—	46,197
Other Ferroalloys	4,061	20,447	752	4,507	—	289	425	30,481
Total Iron Products & Ferroalloys	21,495	350,034	1,511	89,564	380	10,430	2,029	475,443
Grand Total	310,669	1,699,189	4,811	4,916,736	29,287	102,875	4,534	7,068,101
Iron and steel scrap	146	505	144	4	—	34,954	17,087	52,840

Table 26A (continued)
Imports of Iron and Steel Products by Customs District—1982

Products	(Net Tons)										
	PACIFIC COAST						OFF SHORE				
	San Diego	Los Angeles	San Francisco	Portland	Seattle	Total	Virgin Islands	Anchorage	Honolulu	San Juan	Total
Other Steel Products											
Structural shapes, fabricated	552	5,383	1,515	11,047	4,943	23,440	113	25,888	39	151	26,191
Shapes—Cold formed	—	—	—	1	—	1	—	—	—	—	—
Sashes and frame	—	—	8	—	53	61	—	—	—	—	—
Fence or sign posts	1	—	5	—	26	32	—	—	1	—	1
Wire—nonmetallic covered	1	131	21	5	13	171	—	—	2	27	29
Wire rope	238	2,233	3,539	4,035	6,601	16,646	—	—	333	68	401
Wire strand	—	7,775	6,299	7,890	7,136	29,100	—	—	3,068	425	3,493
Welded wire fabric	53	628	355	9	292	1,337	—	—	2	534	536
Other nails and staples	—	4,657	1,019	148	674	6,498	—	—	13	144	157
Bale ties—Strip	—	1,153	—	—	—	1,153	—	—	—	15	15
Bolts, nuts and rivets	560	90,597	5,063	2,198	50,802	149,220	17	38	55	561	671
Grinding bails	—	192	—	—	5	197	—	—	—	491	491
Blanks, nonrectangular flat rolled	24	498	—	1	178	701	—	46	—	20	66
Rigid conduit	—	699	27	—	—	726	—	—	—	—	—
Pipe and tube fittings	—	6,728	785	885	3,990	12,388	—	326	21	7	354
Total Other Steel Products	1,429	120,674	18,636	26,219	74,713	241,671	130	26,298	3,534	2,443	32,405
Total Steel Products	7,039	2,514,118	657,137	354,821	422,678	3,955,793	1,204	166,930	41,915	132,562	342,611
Iron Products & Ferroalloys											
Bar iron, iron slabs & blooms, etc.	—	—	5	—	—	5	—	—	—	—	—
Cast iron soil pipe and fittings	7	18	15	14	—	54	—	—	—	2	2
Other cast iron pipe and fittings	370	802	651	21	272	2,116	—	—	—	2	2
Malleable cast iron pipe fittings	—	5,357	201	29	147	5,734	—	—	—	162	162
Castings and forgings	3,399	3,179	5,992	790	1,732	15,092	—	—	1	173	174
Pig iron	—	14,435	6,125	—	2,757	23,317	—	—	—	—	—
Sponge iron	—	710	35	—	50	795	—	—	—	—	—
Ferromanganese (manganese content)	—	1,857	—	434	—	2,291	—	—	—	206	206
Ferrosilicon (silicon content)	—	359	42	63	—	464	—	—	—	64	64
Ferrochromium (chromium content)	—	487	42	262	12	803	—	—	—	—	—
Other Ferroalloys	—	1,151	736	2,255	249	4,391	—	—	259	131	390
Total Iron Products & Ferroalloys	3,776	28,355	13,844	3,868	5,219	55,062	—	—	260	740	1,000
Grand Total	10,815	2,542,473	670,981	358,689	427,897	4,010,855	1,204	166,930	42,175	133,302	343,611
Iron and steel scrap	27,713	337	125	186	121,157	149,518	—	—	68	90	158

Table 26A (continued)
Imports of Iron and Steel Products by Customs District—1982

Products	GREAT LAKES-CANADIAN BORDER											St. Louis	Total
	Port-land	St. Albans	Ogdens-burg	Buffalo	Great Falls	Pem-bina	Duluth Mineapls	Mil-waukee	Detroit	Chicago	Cleveland		
Other Steel Products													
Structural shapes, fabricated	10,983	6,870	5,865	15,736	4,066	334	931	349	4,200	643	219	—	50,216
Shapes—Cold formed	—	—	238	285	—	—	—	—	—	—	1	—	524
Sashes and frame	7	78	24	420	—	12	—	—	357	—	—	—	898
Fence or sign posts	1	3	—	87	—	—	—	—	36	—	—	—	127
Wire—nonmetallic covered	49	—	17	—	—	—	—	—	12	22	1	—	101
Wire rope	701	37	660	507	234	36	23	—	778	5,024	5	—	8,005
Wire strand	243	121	125	640	—	—	—	—	567	5,089	89	327	7,201
Welded wire fabric	99	5,333	496	5,861	—	—	31	44	1,993	53	64	10	13,986
Other nails and staples	12	56	597	231	—	1	16	53	652	2,270	22	84	3,994
Bale ties—Strip	—	—	—	—	—	—	—	—	—	—	—	—	—
Bolts, nuts and rivets	26	1,511	11,912	6,825	12	86	313	243	20,759	23,280	3,520	121	68,608
Grinding balls	13	—	—	3,956	—	—	1,710	—	2,126	—	—	—	7,805
Blanks, nonrectangular flat rolled	3	86	60	108	—	—	—	14	609	228	8	10	1,126
Rigid conduit	—	—	1	18	—	—	—	—	9	8	1	—	37
Pipe and tube fittings	25	52	265	1,053	302	18	1,283	1	4,514	16,356	133	37	24,039
Total Other Steel Products	12,162	14,147	20,282	35,727	4,614	487	4,307	704	36,612	52,973	4,063	589	186,667
Total Steel Products	22,457	96,154	220,595	493,468	28,835	33,644	50,665	20,069	1,570,300	1,074,530	422,162	10,124	4,043,003
Iron Products & Ferroalloys													
Bar iron, iron slabs & blooms, etc.	—	—	—	—	—	—	—	—	—	—	—	—	—
Cast iron soil pipe and fittings	—	—	86	169	—	—	—	—	—	—	—	—	255
Other cast iron pipe and fittings	1	568	381	812	1	19	—	—	1,393	46	317	28	3,566
Malleable cast iron pipe fittings	—	—	259	247	—	—	—	—	61	761	76	—	1,404
Castings and forgings	245	2,843	2,381	1,660	582	127	2	2	1,980	8,464	505	124	18,915
Pig iron	1,985	3,418	1,029	3,576	—	—	—	31,290	25,128	37,240	74,638	—	178,304
Sponge iron	—	375	5,799	11,418	—	—	—	—	30,587	277	242	—	48,698
Ferromanganese (manganese content)	—	—	8,121	5,057	—	—	—	—	16,629	35,989	6,533	—	72,329
Ferrosilicon (silicon content)	—	99	1,130	3,023	—	9	—	22	5,049	875	4,369	—	14,576
Ferrochromium (chromium content)	—	—	—	311	—	—	—	—	1,122	459	1,742	—	3,634
Other Ferroalloys	—	—	95	975	—	—	—	—	696	76	114	—	1,956
Total Iron Products & Ferroalloys	2,231	7,303	19,281	27,248	583	155	2	31,314	82,645	84,187	88,536	152	343,637
Grand Total	24,688	103,457	239,876	520,716	29,418	33,799	50,667	51,383	1,652,945	1,158,717	510,698	10,276	4,386,640
Iron and steel scrap	1,499	4,855	6,497	48,998	259	348	210	71	175,713	160	30,540	58	269,208

RAW STEEL PRODUCTION

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

Table 27
Raw Steel Production by Type of Furnace and by Grades

(Thousands of net tons)										
Year	Open Hearth			Basic Oxygen Process			Electric			Total
	Carbon	Alloy	Total	Carbon	Alloy	Total	Carbon	Alloy	Stainless	
1982	5,642	468	6,110	41,214	4,095	45,309	17,287	4,635	1,235	23,158
1981	12,195	1,257	13,452	65,701	7,530	73,231	23,566	8,836	1,743	34,145
1980	11,844	1,210	13,054	60,532	7,083	67,615	22,313	7,152	1,701	31,166
1979	17,200	1,958	19,158	75,334	7,922	83,256	23,692	8,128	2,107	33,927
1978	19,026	2,284	21,310	75,053	8,431	83,484	22,837	7,446	1,954	32,237
1977	18,045	1,998	20,043	70,551	6,857	77,408	19,534	6,486	1,862	27,882
1976	21,426	2,044	23,470	73,588	6,330	79,918	16,994	5,934	1,684	24,612
1975	19,794	2,367	22,161	64,840	6,961	71,801	15,726	5,843	1,111	22,680
1974	32,479	3,020	35,499	74,534	7,018	81,552	19,595	6,924	2,150	28,669
1973	36,768	3,012	39,780	76,868	6,392	83,260	19,111	6,759	1,889	27,759
1972	32,036	2,900	34,936	69,231	5,353	74,584	16,431	5,726	1,564	23,721
1971	32,612	2,947	35,559	59,472	4,471	63,943	14,323	4,755	1,263	20,941
1970	44,361	3,661	48,022	58,889	4,441	63,330	14,161	4,722	1,279	20,162
1969	55,530	5,364	60,894	55,927	4,309	60,236	13,375	5,188	1,569	20,132
1968	59,572	6,264	65,836*	45,706	3,106	48,812	10,991	4,391	1,432	16,814

*Bessemer included with open hearth.

Table 27 (continued)
Raw Steel Production by Type of Furnace and by Grades

(Thousands of net tons)

Total All Grades				Per Cent of Total						Steel for Castings (Included in Total Production)			
				By Grade			By Type of Furnace			(Thousands of net tons)			
Carbon	Alloy	Stainless	Total	Carbon	Alloy	Stain- less	OH	BOP	Elec- tric	Carbon	Alloy	Stain- less	Total
1982	64,143	9,198	1,235	74,577	86.0	12.3	1.7	8.2	60.7	31.1	58	16	74
1981	101,462	17,623	1,743	120,828	84.0	14.6	1.4	11.1	60.6	28.3	128	44	173
1980	94,689	15,445	1,701	111,835	84.7	13.8	1.5	11.7	60.4	27.9	121	55	178
1979	116,226	18,008	2,107	136,341	85.3	13.2	1.5	14.0	61.1	24.9	154	59	215
1978	116,916	18,161	1,954	137,031	85.3	13.3	1.4	15.6	60.9	23.5	157	51	210
1977	108,130	15,341	1,862	125,333	86.3	12.2	1.5	16.0	61.8	22.2	141	45	188
1976	112,008	14,308	1,684	128,000	87.5	11.2	1.3	18.3	62.5	19.2	154	47	203
1975	100,360	15,171	1,111	116,642	86.0	13.0	1.0	19.0	61.6	19.4	185	68	255
1974	126,608	16,962	2,150	145,720	86.9	11.6	1.5	24.3	56.0	19.7	125	73	200
1973	132,747	16,163	1,889	150,799	88.0	10.7	1.3	26.4	55.2	18.4	114	62	177
1972	117,698	13,979	1,564	133,241	88.3	10.5	1.2	26.2	56.0	17.8	80	54	136
1971	107,007	12,173	1,263	120,443	88.8	10.1	1.1	29.5	53.1	17.4	92	52	146
1970	117,411	12,824	1,279	131,514	89.3	9.7	1.0	36.5	48.2	15.3	98	62	162
1969	124,832	14,861	1,569	141,262	88.4	10.5	1.1	43.1	42.6	14.3	116	54	172
1968	116,269	13,761	1,432	131,462	88.4	10.5	1.1	50.1	37.1	12.8	116	5	173

Table 28
Raw Steel Production by States

(Thousands of net tons)

States	1982	1981	1980	1979	1978
New York	1,419	3,147	2,675	4,035	4,203
Pennsylvania	10,905	24,066	23,517	28,213	28,070
R.I., Conn., N.J., Del., Md.	4,063	5,777	5,161	6,638	6,350
Va., W. Va., Ga., Fla., N.C., S.C., La.	4,921	6,497	6,066	6,788	6,444
Kentucky	1,422	2,397	2,141	2,438	2,523
Ala., Tenn., Miss., Ark.	1,506	3,585	3,452	4,487	4,305
Ohio	12,181	18,096	16,100	21,082	21,268
Indiana	16,499	22,652	19,820	22,912	24,351
Illinois	5,091	9,105	8,961	11,729	12,443
Michigan	6,075	8,943	7,877	10,922	10,789
Texas	5,277	+	+	+	+
Minn., Mo., Okla., Nebr., Iowa	866	9,068	8,642	8,260	7,845
Ariz., Colo., Utah, Wash., Ore., Hawaii	3,035	4,842	4,795	5,165	4,968
California	1,317	2,653	2,628	3,672	3,472
Total	74,577	120,828	111,835	136,341	137,031

+Included with Minn., Mo., Okla., Nebr., Iowa.

Table 29
Monthly and Quarterly Raw Steel Production and Capability Utilization

(Thousands of net tons)

Periods	1982		1981		1980		1979		1978	
	Net Tons	Capability Utilization* %	Net Tons	Capability Utilization* %	Net Tons	Capability Utilization* %	Net Tons	Capability Utilization* %	Net Tons	Capability Utilization* %
January	7,737	59.3	10,590	79.9	10,701	82.7	11,105	83.5	10,301	77.2
February	7,178	60.9	10,028	83.7	10,332	85.3	10,562	87.9	9,643	80.1
March	8,049	61.7	11,745	88.6	11,439	88.4	12,576	94.5	11,083	83.1
1st Quarter	22,970	60.7	32,363	84.1	32,472	85.4	34,227	88.6	31,027	80.1
April	7,006	55.2	11,243	87.7	10,658	83.0	12,196	93.4	11,528	88.5
May	6,678	50.9	11,423	86.2	9,226	69.6	12,789	94.3	12,320	91.5
June	6,050	47.7	10,452	81.5	7,501	58.4	12,230	93.7	11,861	91.1
2nd Quarter	19,711	51.2	33,068	85.0	27,385	70.3	37,213	94.0	35,709	90.4
First 6 months	42,681	55.9	65,431	84.5	59,857	77.8	71,440	91.0	66,736	85.3
July	5,719	43.8	10,160	77.6	6,796	53.1	11,821	89.9	11,388	85.1
August	5,538	42.4	10,120	77.3	7,018	54.4	11,309	86.0	11,550	86.3
September	5,299	41.9	9,618	75.9	7,767	62.6	10,541	82.8	11,467	88.1
3rd Quarter	16,555	42.7	29,898	76.9	21,581	56.8	33,659	86.2	34,405	86.5
9 Months	58,367	50.7	95,329	82.0	81,438	70.8	105,099	89.6	101,141	85.7
October	5,262	40.2	9,003	68.7	9,442	72.2	10,810	84.4	12,105	89.8
November	4,546	35.9	7,962	62.8	10,057	79.5	9,997	80.6	11,654	89.4
December	4,456	34.0	7,671	58.6	10,180	77.8	9,996	78.0	11,812	87.7
4th Quarter	14,264	36.7	24,636	63.4	29,679	76.5	30,803	81.0	35,571	88.9
Second 6 Months	30,820	39.7	54,534	70.2	51,260	66.8	64,462	83.6	69,976	88.3
Year †	74,577	48.4	120,828	78.3	111,835	72.8	136,341	87.8	137,031	86.8

*Raw steel production capability varies in each calendar quarter and aggregated 157.9, 155.3, 153.7, 154.3 and 154.0 million net tons for the full years 1978, 1979, 1980, 1981 and 1982 respectively.

†Revised totals include adjustments not shown in monthly figures.

PIG IRON AND FERROALLOYS

Table 30
Blast Furnace Production
 Including Direct Castings and Ferroalloys
 (Thousands of net tons)

Year	Basic	Bessemer	Low Phosphorus	Foundry	Malleable	All Other	Total
1982	42,604	—	56	239	377	33	43,309
1981	71,166	56	132	1,221	929	66	73,570
1980	66,964	39	72	713	799	134	68,721
1979	84,047	12	44	1,591	1,003	306	87,003
1978	84,497	295	110	1,856	471	450	87,679
1977	78,198	254	122	1,610	690	454	81,328
1976	82,894	1,150	112	1,489	800	425	86,870
1975	75,911	1,087	140	1,321	814	650	79,923
1974	91,193	1,100	106	1,528	1,382	600	95,909
1973	96,202	1,242	101	1,581	1,352	730	101,208

Table 31
Pig Iron Consumption and Sales
 (Thousands of net tons)

Year	Steelmaking	Other Than Steelmaking*	Total
1982	42,013	777	42,790
1981	70,858	3,055	73,913
1980	66,111	2,794	68,905
1979	83,307	3,984	87,291
1978	83,571	4,148	87,719
1977	77,141	3,711	80,852
1976	82,039	4,322	86,361
1975	72,837	4,115	76,952
1974	90,500	5,085	95,585
1973	96,138	4,727	100,865

*Includes sales for use outside the steel industry.

Table 32
Pig Iron Shipments Other than for Own Use
 (Thousands of net tons)

Year	Basic	Bess. & Low. Phos.	Foundry	Malleable and Silvery	Total	Incl. in Total	
						Hot Metal	Cold Metal
1982	154	71	20	323	568	300	268
1981	337	119	109	663	1,228	853	375
1980	301	183	125	597	1,206	648	558
1979	538	279	227	811	1,855	1,152	703
1978	677	413	210	799	2,099	1,287	812
1977	663	533	173	737	2,106	1,144	962
1976	530	439	356	836	2,161	1,160	1,001
1975	488	379	291	752	1,910	981	929
1974	743	487	430	1,223	2,883	1,413	1,470
1973	736	598	580	1,398	3,312	1,338	1,974

Table 33
Production of Ferroalloys
 (Thousands of net tons)

	1982 ^P	1981 ^R	1980	1979	1978
Ferromanganese	98	193	189	317	273
Silicomanganese	72	173	188	165	141
Ferrosilicon (a)	395	680	686	857	820
Ferrochrome	103	165	184	247	176
Other Chrome (b)	15	62	54	47	43
Other Ferroalloys (c)	162	220	246	242	213
Total	865	1,493	1,547	1,875	1,666

Table 34
Ferroalloy Imports for Consumption
 (Thousands of net tons)

	1982 ^P	1981 ^R	1980	1979	1978	1977
Ferromanganese	487	671	609	821	675	534
Silicomanganese	62	129	75	95	95	88
Ferrosilicon (a)	103	184	92	141	171	141
Ferrochrome	141	428	297	242	327	224
Other Chrome (b)	8	15	9	4	4	20
Other Ferroalloys (c)	60	88	67	78	81	92
Total	861	1,515	1,149	1,381	1,353	1,099

(a) Ferrosilicon includes Silocon Metal.

(b) Other Chrome includes Ferrochrome—silicon and chromium metal.

(c) Other Ferroalloys includes Ferrophosphorus, Manganese Metal and all other ferroalloys not listed.

Source: Compiled by The Ferroalloys Association from Bureau of Mines and Department of Census reports.

Table 35
*Materials Used by Blast Furnaces in Manufacture of Iron
(Pig and Molten) in 1982*

Products	Thousands of net tons	Net tons per ton of iron produced
Ore:		
Iron ore (incl. maganiferous and block)	2,625	0.061
Maganese ore (incl. ferruginous manganese)	85	0.002
Agglomerated products (sinter, pellets, etc.)	65,398 (a)	1.510
Total ores and agglomerated products consumed	68,108	1.573
Less flue dust and sludge produced	1,045	0.024
Net—Ores & agglomerated products consumed	67,063	1.549
Scrap:		
Total scrap consumed	2,593	0.060
Less produced at blast furnaces & auxiliary units	316	0.007
Net—Scrap consumed	2,277	0.053
Mill cinder, roll scale, etc.	2,503	0.058
Limestone, dolomite, other flux materials (b)	6,718	0.155
Coke:		
Total coke consumed in blast furnaces	24,099	0.556
Less coke breeze (dust) recovered	777	0.018
Net—Coke consumed	23,322	0.538

(a) Includes production at or near mine site and at other locations.

(b) Based on total limestone and dolomite charged directly into blast furnaces,
plus tonnage consumed in the production of agglomerates.

**BASIC MATERIALS USED IN THE PRODUCTION OF IRON
AND STEEL PRODUCTS**

Table 36
Consumption of Coal
(Thousands of net tons)

Year	In Production of		Other Purposes	Total
	Coke	Steam*		
1982	34,130	2,297	179	36,606
1981	53,565	2,675	293	56,533
1980	58,446	2,602	409	61,457
1979	69,437	2,006	245	71,688
1978	64,562	2,633	285	67,480
1977	69,806	3,048	281	73,135
1976	77,027	2,748	296	80,071
1975	75,515	2,737	364	78,616
1974	81,567	3,426	534	85,527
1973	85,586	4,199	579	90,364

* Includes coal consumed in generating electric power.

Table 37
Consumption of Fluxes
(Thousands of net tons)

Use	Fluorspar	Limestone	Lime	Other Fluxes	Total
1982					
In agglomerated products	...	3,908	...	...	3,908
In blast furnaces	...	2,810	...	...	2,810
In steelmaking furnaces:					
Open hearth	19	185	68	89	361
Basic oxygen process	157	242	3,333	298	4,030
Electric	92	151	788	133	1,164
Total	268	7,296	4,189	520	12,273
1981	428	13,366	7,340	737	21,871
1980	414	13,545	6,446	780	21,185
1979	562	18,522	8,190	1,165	28,439
1978	570	18,552	8,300	1,169	28,591
1977	506	18,766	7,293	1,135	27,700

Table 38
Production, Receipts, Consumption and Shipments of Coke

(Thousands of net tons)

	1982	1981	1980	1979	1978
Production:					
Metallurgical	24,518	37,627	41,845	48,221	44,643
Other coke	227	490	283	288	412
Total Production	24,745	38,117	42,128	48,509	45,055
Receipts, incl. imports	2,704	5,614	4,103	7,972	6,520
Total Production and Receipts	27,449	43,731	46,231	56,481	51,575
Consumption:					
Blast furnaces	23,322	40,451	39,146	50,008	51,286
Foundries	73	...	49	119	114
Other	292	95	81	112	577
Total Consumption	23,687	40,546	39,276	50,239	51,977
Shipments to outside companies	1,042	2,833	4,232	3,487	3,430
Total Consumption and Shipments	24,729	43,379	43,508	53,726	55,407

Table 39
Iron Ore Receipts and Consumption
1982

(Thousands of net tons)

	Original Source of Iron Ore						All Other Foreign Countries	Total Iron Ore
	United States				Canada			
	Great Lakes (a)	North-eastern (b)	Southern (c)	Western (d)	Great Lakes (e)	Eastern (f)		
Receipts at plants	36,255	—	1,112	2,931	—	9,872	5,686	55,856
Consumption in:								
Blast furnaces	37,298	—	1,093	1,949	84	7,932	2,238	50,534*
Steel producing furnaces	61	—	—	27	—	42	143	273
Agglomerating plants (g)	1,506	—	—	729	—	3,713	4,041	9,989
Total Consumption	38,865	—	1,093	2,705	84	11,687	6,422	60,856

(a) Michigan, Minnesota, Wisconsin.

(b) New England states, Delaware, New Jersey, New York, Pennsylvania.

(c) Florida, Alabama, Georgia, Missouri, New Mexico, Tennessee, Texas, Virginia.

(d) California, Nevada, Utah, Wyoming, Colorado, Montana, Washington.

(e) Ontario.

(f) Quebec, Newfoundland, Nova Scotia, Labrador, New Brunswick, Prince Edward Island.

(g) Represents plants at other than mine locations.

*Includes 47,969,000 N.T. of agglomerates produced at or near mine site.

Table 40
Imports of Iron Ore By Countries
(Thousand gross tons)

Country	1982 ^P	1981	1980	1979	1978	1977	1976	1975	1974	1973
Australia	—	—	*	183	264	305	617	803	638	464
Brazil	972	1,738	1,995	3,095	3,979	2,243	5,388	7,526	6,572	3,183
Canada	9,282	18,845	17,311	22,602	19,236	25,283	24,962	19,111	19,702	21,628
Chile	47	342	322	245	390	566	608	931	296	205
Liberia	2,399	2,160	1,590	2,190	2,170	1,791	2,153	2,496	2,730	2,734
Peru	35	77	193	456	818	1,021	716	1,551	1,810	1,501
Sweden	71	87	33	171	256	154	441	182	335	274
Venezuela	1,819	5,071	3,602	4,564	6,083	6,179	9,001	13,137	15,378	13,148
Other	*	8	12	270	420	363	504	1,005	568	159
Total	14,679	28,328	25,058	33,776	33,616	37,905	44,390	46,742	48,029	43,296

*Less than 500 tons.

Source: Bureau of Mines

Table 41
Iron Ore Shipments From Great Lakes Ports
 (Thousands of gross tons)

Port	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
Superior	7,958	10,669	10,146	13,674	12,515	7,742	6,145	6,609	10,004	11,951
Duluth	5,982	13,071	13,263	15,039	13,568	10,687	14,050	14,385	17,832	17,941
Two Harbors	4,478	9,996	10,010	11,124	9,477	3,201	7,506	8,557	9,014	7,803
Marquette	1,934	5,342	5,721	5,332	6,003	3,990	5,436	4,588	2,867	3,392
Escanaba	5,319	8,743	9,724	11,816	11,434	7,890	10,061	9,363	8,220	8,747
Silver Bay	2,124	6,351	4,399	8,267	9,610	4,449	9,694	8,971	10,399	10,878
Taconite Harbor	3,624	7,643	6,097	9,467	8,752	3,501	10,254	10,114	10,456	13,104
Michipicoten (Canada)	...	...	...	...	...	...	74	30	81	165
Depot Harbor (Canada)	...	...	...	227	675	573	622	662	686	725
Little Current (Canada)	...	...	...	...	306	608	375	496	582	512
Picton (Canada)	...	...	...	...	43	598	451	272	392	464
Thunder Bay (Canada)	795	1,212	2,679	3,801	4,395	4,695	4,127	3,976	4,889	5,152
Point Noire (Canada)	2,477	4,887	4,319	5,149	3,608	5,108	5,053	2,989	3,915	3,935
Port Cartier (Canada)	1,126	2,084	1,716	2,685	2,592	3,842	4,834	2,968	1,921	2,481
Seven Islands (Canada)	2,635	4,891	4,555	5,473	5,918	10,166	7,965	6,267	6,320	7,295
Total	38,452	74,889	72,629	92,054	88,896	67,050	86,647	80,267	87,578	94,545

Source: American Iron Ore Association

Table 42
Agglomerated Products

(Thousands of net tons)

	1982	1981	1980	1979	1978
Materials Used:					
Ore fines and concentrates	49,441	112,006	88,056	113,048	104,501
Flue dust and sludge	900	1,699	2,065	2,509	2,422
Scale	2,455	3,683	3,464	4,235	4,057
Coke breeze	984	1,434	1,416	1,892	2,014
Coal	255	341	171	130	137
Cinder and slag	1,800	2,825	2,206	2,789	2,907
Limestone and dolomite	3,908	6,368	6,109	8,210	7,530
Other	1,419	1,500	1,417	2,303	2,747
Total Materials Used	61,162	129,856	104,904	135,116	126,315
Produced From Above					
Materials:					
Pellets	31,917	68,381	61,305	79,996	71,645
Sinter, briquettes, nodules and other	18,093	28,956	27,886	35,969	36,140
Total Production	50,010	97,337	89,191	115,965	107,785
Receipts of Foreign Production:	7,195	15,215	12,743	19,283	18,259
Consumed In:					
Blast Furnaces:					
Pellets	47,760	80,864	72,379	90,684	86,629
Sinter, briquettes, nodules and other	17,638	27,445	27,899	35,898	35,572
Total	65,398	108,309	100,278	126,582	122,201
Steelmaking Furnaces—					
Pellets	115	157	183	213	261
Sinter, briquettes, nodules and other	4	4	2	16	54
Total	119	161	185	229	315
Total Consumption	65,517	108,470	100,463	126,811	122,516

Table 43
Scrap—Stocks, Production, Receipts, and Consumption

(Thousands of net tons)

Year	Stocks On Hand Beginning of Year	Produced	Received*	Consumed	Shipped, Transferred or Otherwise Disposed	Stocks On Hand End of Year
1982 ^P	6,790	23,972	22,788	44,533	3,538	5,479
1981 ^R	6,890	38,424	35,270	68,343	5,111	7,130
1980	7,402	36,885	34,676	66,557	5,463	6,943
1979	7,132	45,376	37,955	77,190	5,846	7,427
1978	8,010	44,920	35,651	76,294	5,357	6,930
1977	8,259	42,412	31,765	69,301	5,451	7,684
1976	7,401	43,464	31,860	68,427	5,709	8,589
1975	6,880	40,060	27,919	62,836	4,442	7,581
1974	6,002	47,421	40,180	81,074	5,589	6,940
1973	7,112	50,406	36,655	82,467	5,733	5,973
1972	7,508	44,431	33,702	73,415	5,160	7,066

Source: Bureau of mines.

*Includes scrap received from other plants within the same company.

Table 44
Scrap Consumption by Grade
(Thousands of net tons)

	1982 ^P	1981 ^R
Carbon steel:		
Low phosphorous plate and punchings	304	425
Cut structurals and plate	1,342	1,385
No. 1 heavy melting steel	14,175	23,142
No. 2 heavy melting steel	2,278	3,167
No. 1 and electric furnace bundles	5,944	8,629
No. 2 and all other bundles	1,396	2,071
Turnings and borings	1,135	1,658
Slag scrap (Fe content)	3,147	4,455
Shredded or fragmentized	2,197	3,297
No. 1 busheling	987	1,328
All other carbon steel scrap	6,945	11,398
Total Carbon Steel	39,850	60,954
Stainless steel	750	872
Alloy steel (excl. stainless)	1,022	1,773
Iron scrap	1,829	3,013
Other grades or types of scrap	1,082	1,731
Total Scrap	44,533	68,343

Source: Bureau of mines.
Data may not add to totals due to rounding.

Table 45
Consumption of Scrap and Pig Iron
By Types of Furnaces

(Thousands of net tons)

Year	Type of Furnace	Consumed		
		Scrap	Pig Iron	Total
1982 ^P	Open hearth	3,560	3,762	7,322
	Basic oxygen process	14,311	38,935	53,246
	Electric	23,329	180	23,509
	Cupola	37	123	160
	Direct castings	—	650	650
	Blast	2,662	—	2,662
	Other (Incl. air furnace)	634	111	745
	Total	44,533	43,761	88,294
1981 ^R	Open hearth	7,450	8,862	16,312
	Basic oxygen process	23,278	62,162	85,440
	Electric	32,467	260	32,727
	Cupola	37	175	212
	Direct castings	—	1,344	1,344
	Blast	4,046	—	4,046
	Other (Incl. air furnace)	1,065	208	1,273
	Total	68,343	73,011	141,354
1980	Open hearth	7,398	8,600	15,998
	Basic oxygen process	21,859	56,414	78,273
	Electric	32,673	520	33,202
	Cupola	114	117	231
	Direct castings	—	1,188	1,188
	Blast*	3,651	—	3,651
	Other (Incl. air furnace)	862	266	1,128
	Total	66,557	67,114	133,671
1979	Open hearth	10,406	12,860	23,266
	Basic oxygen process	26,496	68,526	95,022
	Electric	34,813	559	35,372
	Cupola	281	201	482
	Direct castings	—	2,239	2,239
	Blast	4,117	—	4,117
	Other (Incl. air furnace)	1,077	357	1,434
	Total	77,190	84,742	161,932
1978	Open hearth	11,675	13,437	25,112
	Basic oxygen process	26,006	69,028	95,034
	Electric	32,694	1,112	33,806
	Cupola	394	189	583
	Direct castings	—	1,581	1,581
	Blast	4,185	—	4,185
	Other (Incl. air furnace)	1,340	354	1,694
	Total	76,294	85,701	161,995

Source: Bureau of Mines

* Includes slag scrap.

Table 46
Consumption of Electric Power
(Millions of kilowatt hours)

Year	Generated	Purchased	Total
1982	6,664	34,103	40,767
1981	8,511	48,997	57,508
1980	8,744	43,585	52,329
1979	9,283	50,693	59,976
1978	9,349	48,224	57,573

Table 47
Consumption of Oxygen
(Millions of cubic feet in gaseous form)

	1982	1981	1980	1979	1978
Purchased	132,659	204,081	192,264	244,926	246,288
Produced (a)	13,686	23,615	22,182	26,109	28,673
Total	146,345	227,696	214,446	271,035	274,961
Used in:					
Conditioning	8,106	14,143	13,161	17,235	17,548
Scrap preparation	922	1,296	1,635	2,090	2,016
Other burning and welding	3,065	5,439	4,273	5,249	7,384
Blast furnaces	16,057	24,278	23,007	35,058	35,641
Steelmaking:					
Open hearth	9,478	21,701	20,626	28,894	34,432
Basic oxygen process	89,809	139,549	130,906	160,602	158,985
Electric	8,453	13,001	11,485	12,915	10,310
Total Steelmaking	107,740	174,251	163,017	202,411	203,727
Maintenance and construction	1,236	1,074	866	1,510	1,218
All other	9,219	7,213	8,487	7,482	7,427
Total	146,345	227,696	214,446	271,035	274,961

(a) Produced on companies owned or leased facilities.

NOTE: Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

Table 48
Consumption of Fuels

Year	Purpose					Total
	Blast Furnace Area		Steel Melting Furnaces	Heating and Annealing Furnaces	Other	
	Blast Furnaces	Other Uses				
Fuel Oil (Thousands of gallons)						
1982	111,971	9,509*	59,484	94,393	99,122	374,479
1981	277,997	4,045*	114,536	125,295	126,311	648,184
1980	298,647	10,768*	101,923	151,777	137,230	700,345
1979	572,945	32,151*	211,603	383,839	228,599	1,429,137
1978	533,101	99,616*	289,518	648,173	333,463	1,903,871

* Includes coke oven underfiring.

Tar and Pitch (Thousands of gallons)						
1982	21,317	...	19,758	...	3,485	44,560
1981	27,753	...	14,196	12,687	4,546	59,182
1980	41,328	...	49,835	...	1,759	92,922
1979	60,208	...	77,221	...	1,251	138,680
1978	79,529	†	56,218	...	10,586	146,333

† Included with "Other"

Liquid Petroleum Gas (Thousands of gallons)						
1982	†	†	†	1,300	3,096	4,396
1981	†	†	†	2,606	3,720	6,326
1980	†	†	†	2,506	3,388	5,894
1979	†	†	†	6,545	7,381	13,926
1978	†	†	†	15,725	9,639	25,364

† Included with "Other"

Table 48 (continued)
Consumption of Fuels

Year	Purpose					Total
	Blast Furnace Area		Steel Melting Furnaces	Heating and Annealing Furnaces	Other	
	Blast Furnaces	Other Uses				
Natural Gas						
(Millions of cubic feet—based on 1,000 B.T.U. per cubic foot)						
1982	16,879	22,150*	20,530	219,371	130,134	409,064
1981	26,398	43,689*	34,936	339,527	168,665	613,215
1980	20,962	30,697*	32,481	317,432	158,740	560,312
1979	23,930	35,018*	38,720	368,538	177,486	643,692
1978	23,254	29,675*	56,701	327,302	156,252	593,184

* Includes coke oven underfiring.

Coke Oven Gas (Millions of cubic feet—based on 500 B.T.U. per cubic foot)						
1982	7,106	158,777*	11,830	123,357	109,613	410,683
1981	10,990	247,417*	4,725	195,210	163,094	621,436
1980	14,302	268,114*	5,885	208,499	174,599	671,399
1979	15,980	292,238*	5,004	254,963	197,426	765,611
1978	6,469	264,833*	4,592	250,295	189,476	715,665

* Includes 229,265 coke oven underfiring in 1978, 247,958 in 1979, 214,946 in 1980, 200,911 in 1981 and 128,211 in 1982.

Blast Furnace Gas (Millions of cubic feet—based on 95 B.T.U. per cubic foot)						
1982	782,693	518,732*	6,173	32,651	724,956	2,065,205
1981	1,238,051	886,145*	10,200	66,265	1,135,731	3,336,392
1980	1,141,893	727,414	10,051	62,506	1,224,859	3,166,723
1979	1,516,885	882,764	†	193,518	1,670,939	4,264,106
1978	1,531,049	1,044,258	†	198,411	1,654,582	4,428,300

* Includes coke oven underfiring.

† Included with "Other".

Table 49
*Imports for Consumption of Manganese Ore by Countries (35 Percent or More Mn)**

(Mn content—Net tons)

Countries	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
Australia.....	18,842	47,842	106,043	55,316	32,598	13,834	117,367	86,542	98,142	61,458
Brazil	2,962	38,909	33,648	51,660	52,095	111,639	161,108	307,367	221,999	299,403
Gabon	23,156	90,629	79,858	48,119	126,962	245,221	269,698	244,795	150,116	193,720
Ghana	...	...	...	...	...	...	...	...	4,531	18,600
Mexico	1,492	25,813	22,384	2,060	18,355	34,882	18,485	23,172	16,431	40,666
Morocco	4,996	11	2,843	10,719	14,522	17,070	18,687	...	27,505	13,922
Republic of South Africa	57,872	97,536	86,373	41,475	NA	16,882	60,963	92,210	32,909	55,921
Zaire	...	...	...	...	13,231	14,700	2,937	11,444	25,291	35,656
Other Countries	1,734	...	...	22,460	9,472	...	...	...	...	354
Total	111,054	300,740	331,149	231,809	267,235	454,228	649,245	765,530	576,924	719,700

*Comprises ore received during the year for immediate consumption plus material withdrawn from bonded warehouses; excludes imports for manufacture in bond and export.

Source: Bureau of Mines, Department of Interior.

CANADIAN STATISTICS

Table 50
Production of Pig Iron and Ferroalloys

(Net tons)

Year	Pig Iron			Ferroalloys	Total
	Basic	All Other	Total		
1982	8,226,969	591,595	8,818,564	203,378	9,021,942
1981	9,929,454	810,804	10,740,258	310,685	11,050,943
1980	11,040,417	966,650	12,007,067	318,901	12,325,968
1979	11,464,845	556,588	12,021,433	192,462	12,213,895
1978	10,486,271	909,717	11,395,988	265,042	11,661,030
1977	10,030,103	619,244	10,649,347	213,140	10,862,487
1976	10,104,675	698,554	10,803,229	247,997	11,051,226
1975	9,466,064	620,079	10,086,143	176,339	10,262,502
1974	9,564,449	821,857	10,386,306	273,506	10,659,812
1973	9,627,429	883,565	10,510,994	223,367	10,734,361

Source: Statistics Canada.

Table 51
Materials Consumed by Blast Furnaces in the Production of Pig Iron

Year	Net Tons			Consumption per Ton of Pig Iron		
	Ore, Cinder, etc.	Limestone	Coke	Ore, Cinder, etc.	Limestone	Coke
1982	13,610,281	193,297	4,139,690	1.543	0.022	0.469
1981	15,817,001	259,426	4,552,753	1.473	0.024	0.424
1980	17,372,626	345,971	5,343,851	1.447	0.029	0.445
1979	18,601,580	469,846	5,458,170	1.547	0.039	0.454
1978	17,215,864	430,699	4,925,123	1.511	0.038	0.432
1977	15,490,321	361,054	4,798,210	1.455	0.034	0.451
1976	15,098,856	818,426	5,131,274	1.398	0.076	0.475
1975	14,161,402	963,125	4,951,237	1.404	0.095	0.491
1974	14,644,037	897,380	5,027,821	1.410	0.086	0.484
1973	15,288,419	950,600	5,109,092	1.455	0.090	0.486

Source: Statistics Canada.

Table 52
Raw Steel Production
(Net tons)

Year	Open Hearth	Basic Oxygen Process	Electric	Total	Steel for Castings* Incl. in Total	Alloy Steel Incl. in Total
1982	1,814,266	7,989,644	3,161,669	12,965,579	120,257	1,057,720
1981	2,203,771	9,567,252	4,363,641	16,134,664	191,747	1,829,032
1980	3,583,430	9,669,217	4,275,473	17,528,120	239,495	2,231,062
1979	2,632,219	10,048,152	4,042,636	17,723,007	246,203	2,458,253
1978	3,338,969	9,274,452	3,809,307	16,422,728	187,936	2,039,373
1977	3,174,390	8,766,492	3,084,991	15,025,873	164,353	1,864,649
1976	3,275,098	8,758,757	2,615,367	14,649,222	183,563	1,754,172
1975	3,394,143	8,052,297	2,911,028	14,357,468	239,312	1,437,835
1974	3,775,659	8,106,525	3,135,094	15,017,278	221,838	1,686,879
1973	4,608,197	7,433,896	2,713,286	14,755,379	206,159	1,597,596

*Includes only that portion of the steel for castings which was produced in foundries operated by companies producing steel ingots.

Source: Statistics Canada

Table 53
Net Shipments of Rolled Steel Products
(Net tons)

Products	1982	1981	1980	1979	1978
Ingots and semifinished shapes	578,736	1,098,708	897,005	551,343	671,919
Rails and heavy structural shapes*	454,257	925,608	862,691	380,919	290,724
Wire Rods	989,851	1,088,166	1,363,294	1,257,889	1,100,126
Structural shapes intermediate**	238,106	391,404	458,798	919,602	891,647
Bar sized shapes	127,372	182,561	177,693	230,484	215,002
Concrete reinforcing bars	598,187	750,665	843,294	584,086	633,338
Other hot rolled bars	830,121	1,126,657	1,105,299	1,343,722	1,260,283
Tie plates and track material	63,033	74,934	87,256	79,021	70,312
Plates (Incl. plates for pipe & tube)	1,237,498	1,987,162	1,954,672	1,874,681	1,636,158
Hot rolled sheets & strip	2,203,371	2,506,978	2,557,134	2,818,510	2,728,914
Cold finished bars	75,258	104,763	108,224	130,704	108,942
Cold reduced sheets and strip, cold rolled other	1,884,419	1,941,128	2,037,874	2,134,726	2,107,878
Galvanized sheets	1,025,365	1,047,999	1,099,256	1,175,237	1,173,534
Total net shipments	10,305,574	13,226,733	13,552,490	13,480,924	12,888,777

Source: Statistics Canada

*Prior to 1980, included only rails.

**Prior to 1980, included structural shapes and piling.

Table 53 (continued)
Net Shipments of Rolled Steel Products

(Net tons)

Products	1977	1976	1975	1974	1973
Ingots and semifinished shapes	640,276	490,926	399,575	500,995	388,853
Rails and heavy structural shapes*	350,446	388,751	371,546	316,981	301,986
Wire Rods	863,872	804,085	630,822	858,111	801,185
Structural shapes intermediate**	668,854	563,104	600,274	654,242	636,369
Bar sized shapes	156,311	119,354	126,212	150,182	164,204
Concrete reinforcing bars	545,742	534,280	611,461	772,052	757,391
Other hot rolled bars	1,098,700	1,011,897	950,446	1,073,099	1,048,969
Tie plates and track material	75,072	80,420	87,221	77,818	55,673
Plates (Incl. plates for pipe & tube)	1,253,259	1,163,917	1,605,522	1,412,697	1,345,722
Hot rolled sheets & strip	2,691,196	2,700,730	2,458,085	2,504,116	2,469,379
Cold finished bars	93,973	84,046	88,044	102,812	98,415
Cold reduced sheets and strip, cold rolled other	1,955,483	1,945,350	1,678,624	2,044,330	1,956,939
Galvanized sheets	983,273	911,542	844,265	971,791	910,623
Total net shipments	11,376,457	10,798,402	10,452,097	11,439,226	10,935,708

Source: Statistics Canada

*Prior to 1980, included only rails.

**Prior to 1960, included structural shapes and piling.

Table 54
Imports of Iron and Steel Products

(Net tons)

Products	1982	1981	1980	1979	1978
Steel Mill Products:					
Ingots, blooms, billets, etc.	17,978	188,521	115,347	198,681	59,431
Wire rods	124,403	215,727	117,388	183,251	209,824
Structural shapes (plain 3" and over)	102,020	343,732	197,630	263,138	120,158
Sheet piling	8,387	18,437	13,784	17,582	24,640
Plates	225,364	709,810	252,833	463,675	296,247
Rails and track accessories	34,981	46,037	32,723	22,744	30,459
Concrete reinforcing bars	11,571	16,255	8,970	24,845	26,554
Bar shapes under 3"	18,030	30,929	10,336	17,173	16,864
Bars—Hot rolled—Carbon	36,565	76,505	37,510	67,329	51,673
—Alloy	56,949	47,437	27,249	33,337	41,911
—Cold finished	8,670	15,494	13,644	18,716	17,841
Pipe and tubing	273,923	400,335	355,049	311,898	344,495
Wire drawn	34,789	49,032	38,830	67,129	63,444
Barbed wire	2,360	2,396	1,272	5,087	1,509
Wire nails	11,918	20,535	13,294	19,147	17,472
Tin plate	4,835	4,042	2,132	1,647	1,579
Terne plate	14,050	15,932	13,052	20,674	16,869
Sheets—Hot rolled	91,448	665,865	152,343	289,771	166,321
—Cold rolled	99,248	211,269	75,695	151,936	114,830
Sheet & strip (Coated, incl. galvanized)	101,102	163,338	65,840	147,889	105,871
All other sheet and strip	42,333	78,381	51,173	40,202	38,543
Total Steel Mill Products	1,320,924	3,320,009	1,596,094	2,365,851	1,766,535
Other Steel Products:					
Steel castings and forgings	13,044	15,273	19,189	17,900	15,001
Bars and rods, fabricated	3,796	5,036	4,196	3,831	3,538
Plates, flanged and dished	3,565	5,004	5,073	4,308	4,475
Plates, sheets and strip for saws	2,455	6,405	9,290	9,684	8,275
Plates, fabricated	5,344	12,707	7,761	8,497	4,710
Sheet and strip, fabricated	7,835	14,581	5,977	8,018	4,632
Structural shapes, fabricated	4,194	7,449	6,502	6,265	5,075
Wire strand	4,873	6,660	1,952	3,284	2,914
Wire rope	12,318	13,976	15,857	15,043	11,963
Grinding balls	8,373	17,709	8,851	10,168	12,012
Total Other Steel Products	65,797	104,800	84,646	86,998	73,395
Total Steel Products	1,386,721	3,424,809	1,680,742	2,452,849	1,839,930
Iron Products and Ferroalloys:					
Pig iron	2,708	7,677	2,287	10,927	2,817
Sponge iron	2,456	4,978	4,270	5,762	4,437
Castings and forgings	15,385	17,950	19,544	33,348	19,968
Pipe and tubes, cast iron	1,291	1,587	1,025	1,570	750
Ferroalloys	68,079	115,982	107,587	160,553	94,028
Total Iron Products and Ferroalloys	89,919	148,154	134,713	212,160	122,000
Grand Total	1,476,640	3,572,963	1,815,455	2,665,009	1,961,930

Source: Statistics Canada.

Table 55
Exports of Iron and Steel Products

(Net tons)

Products	1982	1981	1980	1979	1978
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.	284,623	986,122	360,088	133,094	308,066
Wire rods	377,712	358,868	597,284	390,222	344,959
Structural shapes and piling	235,137	295,896	330,038	368,132	356,988
Plates	276,005	329,366	374,748	334,580	303,398
Rail and track accessories	61,915	212,402	279,652	256,953	215,522
Bars—Hot rolled	225,396	294,672	320,232	170,622	150,781
—Cold finished	15,035	16,527	9,323	5,073	5,047
Pipe and tubing	275,233	513,262	398,392	449,106	381,745
Wire, plain and coated	98,039	107,831	94,984	85,595	87,418
Wire nails	73,969	70,838	81,725	78,687	76,496
Sheets and strip	1,216,026	581,122	866,861	503,614	591,133
Sheets and strip—Galvanized	380,649	173,708	182,966	163,892	212,126
Total Steel Mill Products	3,519,739	3,940,634	3,896,293	2,939,570	3,033,679
Other Steel Products:					
Bars and rods, fabricated	6,269	4,069	7,563	7,453	9,934
Grinding balls	3,790	10,383	9,509	18,725	12,818
Castings and forgings	40,617	51,705	50,847	70,022	57,850
Wire rope and strand	8,087	9,959	9,611	7,137	5,684
Total Other Steel Products	58,763	76,116	77,530	103,337	86,286
Total Steel Products	3,578,502	4,016,750	3,973,823	3,042,907	3,119,965
Iron Products and Ferroalloys:					
Pig iron	535,304	514,074	619,886	281,666	600,447
Sponge iron	31,994	135,870	196,550	152,479	63,273
Iron castings	70,678	96,517	85,728	121,050	139,863
Pipe and tubes, cast iron	30,246	41,087	30,120	8,933	13,918
Ferroalloys	63,517	126,507	76,805	65,975	99,150
Total Iron Products and Ferroalloys	731,739	914,055	1,009,069	630,103	916,651
Grand Total	4,310,241	4,930,805	4,982,912	3,673,010	4,036,616

Source: Statistics Canada.

Table 56
Consumption of Coal
(Thousands of net tons)

Year	In production of Coke	Total
1982	5,500	5,504
1981	6,933	6,937
1980	7,624	7,627
1979	7,688	7,688
1978	7,528	7,532
1977	7,268	7,269
1976	7,922	7,923
1975	7,698	7,700
1974	7,866	7,869
1973	7,745	7,751

Table 57
Consumption of Coke
(Thousands of net tons)

Year	In Blast Furnaces*	Total
1982	3,693	3,695
1981	4,283	4,285
1980	5,123	5,126
1979	4,859	4,863
1978	4,906	4,908
1977	4,838	4,839
1976	5,131	5,133
1975	4,953	4,997
1974	5,020	5,023
1973	5,109	5,115

*Blast furnaces producing pig iron and ferroalloys.

Table 58
Consumption of Fuel
(Thousands of gallons)

Year	In Melting Furnaces	In Heating and Annealing Furnaces	Other Purposes	Total
1982	73,801	20,227	10,793	104,821
1981	148,967	17,692	7,421	174,080
1980	145,451	21,088	17,030	183,569
1979	162,770	25,779	5,647	194,196
1978	191,621	30,317	15,145	237,083
1977	158,013	30,111	8,356	196,480
1976	110,254	33,239	9,443	152,936
1975	139,691	28,132	12,813	139,636
1974	117,727	30,321	14,568	162,816
1973	105,221	32,491	18,189	155,901

Table 59
Consumption of Fluxes in Steelmaking Furnaces
(Thousands of net tons)

Year	Fluorspar	Limestone	Lime	Other Fluxes	Total
1982	26	88	678	132	924
1981	29	89	786	122	1,026
1980	38	112	764	121	1,035
1979	33	130	821	131	1,115
1978	37	107	801	147	1,092

Table 60
Consumption of Oxygen
(Millions of cubic feet)

	High* and Low Purity				
	1982	1981	1980	1979	1978
Consumption By Uses:					
Conditioning	1,206	1,426	2,021	2,341	2,177
Scrap preparation	269	257	345	388	379
Other burning and welding	185	159	182	214	258
Blast furnaces	941	5,857	5,077	6,763	4,601
Steelmaking:					
Open hearth	3,196	3,949	6,005	4,329	5,294
Basic oxygen process & Electric	15,024	17,837	18,061	18,801	17,400
Total steelmaking	18,220	21,786	24,066	23,130	22,694
Maintenance & construction	21	19	22	20	23
All other	2,148	2,828	690	1,439	1,370
Total	22,990	32,332	32,403	34,295	31,502

*The term high purity oxygen means a gaseous mixture containing 99.5% by volume, plus or minus 0.1% of pure oxygen.
NOTE: Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

Table 61
Consumption of Pig Iron
(Thousands of net tons)

Year	Steelmaking	Other Than Steelmaking	Total
1982	8,154	134	8,288
1981	9,858	272	10,130
1980	10,917	285	11,202
1979	11,220	227	11,447
1978	10,280	331	10,611

WORLD STATISTICS

The following tables covering production of foreign countries were compiled from reports issued by the Bureau of Mines of the United States Department of the Interior, Statistisches Bundesamt, Aussenstelle Dusseldorf, Eisen-und Stahlstatistik, and the International Iron and Steel Institute.

Table 62
World Production of Iron Ore, Concentrates and Agglomerates by Countries

(Thousands of gross tons)

Countries	1982 ^P		1981 ^R		1980 ^R		1979 ^R		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States	36,500	4.5	74,307	8.6	69,613	8.0	85,716	9.7	81,583	10.3
Canada	32,479	4.0	48,912	5.7	48,293	5.5	58,675	6.6	38,996	4.9
Total	68,979	8.5	123,219	14.3	117,906	13.5	144,391	16.3	120,579	15.2
Latin America										
Argentina	354	...	394	...	405	...	521	...	689	...
Brazil	96,453	...	104,917	...	105,494	...	88,759	...	56,607	...
Chile	6,496	...	8,223	...	8,819	...	8,159	...	9,311	...
Colombia	354	...	402	...	483	...	411	...	418	...
Mexico	7,677	...	8,267	...	8,020	...	8,854	...	3,386	...
Peru	5,413	...	5,575	...	5,589	...	5,331	...	5,905	...
Venezuela	13,779	...	15,472	...	13,465	...	13,317	...	13,779	...
Total	130,526	16.2	143,250	18.6	142,275	16.3	125,352	14.1	90,095	11.4
Europe										
Western Europe										
EEC										
Belgium	...	...	...	...	...	...	...	...	42	...
France	19,684	...	21,528	...	28,738	...	31,461	...	33,243	...
Denmark	...	...	...	...	...	...	...	...	12	...
Italy	28	...	138	...	213	...	246	...	429	...
Luxembourg	...	...	422	...	551	...	620	...	1,513	...
West Germany	1,291	...	1,547	...	1,914	...	1,633	...	1,583	...
United Kingdom	551	...	719	...	902	...	4,202	...	4,173	...
Total EEC	22,145	2.8	25,612	3.0	32,318	3.7	38,162	4.3	40,995	5.2
Other Western Europe										
Austria	3,110	...	2,998	...	3,218	...	3,149	...	2,744	...
Finland	846	...	849	...	797	...	761	...	920	...
Greece (a)	591	...	1,258	...	1,429	...	1,807	...	1,486	...
Norway	3,642	...	3,999	...	3,747	...	4,183	...	3,583	...
Portugal	36	...	36	...	55	...	54	...	51	...
Spain	7,874	...	8,278	...	8,725	...	8,688	...	7,972	...
Sweden	17,716	...	22,858	...	26,755	...	26,200	...	21,148	...
Turkey	1,772	...	2,785	...	2,533	...	1,925	...	2,116	...
Yugoslavia (b)	4,823	...	4,717	...	4,433	...	4,543	...	4,527	...
Total Other	39,819	4.9	46,520	5.4	51,692	5.9	51,310	5.8	44,547	5.6
Total Western Europe	61,964	7.7	72,132	8.4	84,010	9.6	89,472	10.1	85,542	10.8

(a) Included in EEC 1981 and 1982.
(b) Communist Bloc.

Table 62 (continued)
World Production of Iron Ore, Concentrates and Agglomerates by Countries

(Thousands of gross tons)

Countries	1982 ^P		1981 ^R		1980 ^R		1979 ^R		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Eastern Europe										
(Communist Bloc)										
Bulgaria	1,634	...	1,726	...	1,856	...	2,070	...	2,411	...
Czechoslovakia	1,870	...	1,904	...	1,897	...	1,980	...	2,018	...
East Germany	34	...	40	...	50	...	64	...	81	...
Hungary	418	...	415	...	425	...	515	...	526	...
Poland	118	...	103	...	102	...	246	...	556	...
Rumania	2,362	...	2,268	...	2,296	...	2,483	...	2,461	...
U.S.S.R.	237,884	...	238,588	...	240,897	...	237,782	...	236,998	...
Total Eastern Europe	244,320	30.2	245,044	28.5	247,523	28.4	245,140	27.7	245,051	30.8
Total Europe	306,284	37.9	317,176	36.9	331,533	38.0	334,612	37.8	330,593	41.8
Africa										
Algeria	3,543	...	3,543	...	3,445	...	3,120	...	2,756	...
Liberia	46,258	...	18,208	...	18,060	...	20,409	...	18,208	...
Mauritania	7,382	...	7,874	...	8,464	...	9,222	...	9,842	...
Zimbabwe	1,083	...	1,079	...	1,594	...	1,181	...	591	...
South Africa, Republic of	27,558	...	27,873	...	25,963	...	31,062	...	23,218	...
Other	472	...	440	...	452	...	441	...	8,291	...
Total	86,296	10.7	59,017	6.9	57,978	6.7	65,435	7.4	62,906	7.9
Middle East										
Iran	472	...	492	...	492	...	492	...	591	...
United Arab Republic (Egypt)	1,378	...	1,772	...	1,747	...	1,365	...	1,250	...
Total	1,850	0.2	2,264	0.3	2,239	0.3	1,857	0.2	1,841	0.2
Far East										
India	42,321	...	40,549	...	40,274	...	39,236	...	32,971	...
Japan	394	...	434	...	470	...	453	...	596	...
Malaysia	472	...	523	...	365	...	343	...	310	...
South Korea	472	...	487	...	479	...	449	...	689	...
Other	167	...	144	...	156	...	249	...	680	...
Total	43,826	5.4	42,137	4.9	41,744	4.8	40,730	4.6	35,246	4.4
Far East (Communist Bloc)										
China	68,895	...	68,895	...	70,863	...	68,895	...	63,974	...
North Korea	8,858	...	8,858	...	8,858	...	9,104	...	8,858	...
Total	77,753	9.6	77,753	9.0	79,721	9.2	77,999	8.8	72,832	9.2
Oceania										
Australia	93,087	11.5	95,911	11.1	97,569	11.2	95,839	10.8	80,371	10.1
Total World	808,601	100.0	860,727	100.0	870,965	100.0	886,215	100.0	794,463	100.0

Source: United States—Bureau of Mines; other countries—Statistical Quarterly Report for Iron and Steel Industry, Statistisches Bundesamt, Aussenstelle Dusseldorf, Eisen-und Stahlstatistik.

Table 63
World Production of Pig Iron by Countries

(Thousands of net tons)

Countries	1982 ^P		1981 ^R		1980 ^R		1979 ^R		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States	43,309	8.6	73,570	13.3	68,721	12.3	87,003	14.9	87,679	15.7
Canada	8,819	1.8	10,740	1.9	12,007	2.1	12,021	2.0	11,396	2.0
Total	52,128	10.4	84,310	15.2	80,728	14.4	99,024	16.9	99,075	17.7
Latin America										
Argentina	2,094	...	1,918	...	1,991	...	2,136	...	2,005	...
Brazil	12,125	...	12,144	...	14,286	...	13,137	...	11,368	...
Chile	502	...	642	...	714	...	674	...	594	...
Colombia	265	...	257	...	308	...	261	...	327	...
Mexico	5,787	...	6,044	...	5,806	...	5,541	...	5,661	...
Peru	276	...	256	...	325	...	293	...	271	...
Venezuela	2,563	...	2,442	...	2,351	...	1,463	...	759	...
Total	23,612	4.7	23,703	4.3	25,781	4.6	23,505	4.0	20,985	3.8
Europe										
Western Europe										
EEC										
Belgium	8,634	...	10,788	...	10,852	...	11,878	...	11,164	...
Luxembourg	2,852	...	3,185	...	3,933	...	4,190	...	4,102	...
France	16,586	...	19,041	...	21,119	...	21,401	...	20,389	...
Italy	12,789	...	13,579	...	13,469	...	12,564	...	12,572	...
Netherlands	3,988	...	5,071	...	4,771	...	5,306	...	5,085	...
West Germany	30,447	...	35,137	...	37,338	...	38,765	...	33,232	...
United Kingdom	9,184	...	10,531	...	6,962	...	14,217	...	12,604	...
Total EEC	84,480	16.9	97,376	17.7	98,444	17.6	108,321	18.5	99,148	17.7
Other Western Europe										
Austria	3,433	...	3,833	...	3,842	...	4,081	...	3,395	...
Finland	2,161	...	2,166	...	2,226	...	2,246	...	2,048	...
Greece (a)	...	...	44	...	110	...	362	...	661	...
Norway	524	...	628	...	681	...	718	...	613	...
Portugal	342	...	346	...	330	...	400	...	389	...
Spain	6,592	...	6,899	...	7,032	...	7,114	...	6,867	...
Sweden	1,962	...	1,951	...	2,684	...	3,204	...	2,605	...
Switzerland	35	...	36	...	36	...	39	...	39	...
Turkey	2,601	...	2,200	...	2,454	...	1,924	...	1,102	...
Yugoslavia (b)	2,998	...	3,105	...	2,673	...	2,601	...	2,294	...
Total Other	20,648	4.1	21,164	3.8	22,068	3.9	22,689	3.9	20,013	3.6
Total Western Europe	105,128	21.0	118,540	21.5	120,512	21.5	131,010	22.4	119,161	21.3

(a) Included in 1981 and 1982 EEC total.

(b) Communist Bloc.

Table 63 (Continued)
World Production of Pig Iron by Countries

(Thousands of net tons)

Countries	1982 ^P		1981 ^R		1980 ^R		1979 ^R		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Eastern Europe										
(Communist Bloc)										
Bulgaria	1,764	...	1,669	...	1,696	...	1,601	...	1,646	...
Czechoslovakia	10,472	...	10,916	...	10,823	...	10,505	...	10,961	...
East Germany	2,425	...	2,681	...	2,709	...	2,630	...	2,822	...
Hungary	2,425	...	2,438	...	2,440	...	2,629	...	2,568	...
Poland	9,149	...	9,899	...	12,687	...	12,240	...	12,384	...
Rumania	9,370	...	9,763	...	9,934	...	9,787	...	8,989	...
U.S.S.R.	116,844	...	118,790	...	118,257	...	120,148	...	122,027	...
Total Eastern Europe	152,449	30.4	156,156	28.3	158,546	28.3	159,540	27.3	161,397	28.9
Total Europe	257,577	51.4	274,696	49.8	279,058	49.8	290,550	49.7	280,558	50.2
Africa										
Zimbabwe	364	...	386	...	386	...	331	...	331	...
South Africa, Republic of	7,540	...	8,123	...	7,948	...	7,750	...	6,534	...
Algeria	562	...	551	...	551	...	546	...	441	...
Tunisia	176	...	165	...	168	...	172	...	165	...
Total	8,642	1.7	9,225	1.7	9,053	1.6	8,799	1.5	7,471	1.3
Middle East										
Iran	243	...	231	...	220	...	220	...	276	...
United Arab Republic (Egypt)	728	...	716	...	716	...	661	...	661	...
Total	971	0.2	947	0.2	936	0.2	881	0.1	937	0.2
Far East										
India	10,428	...	10,443	...	9,379	...	9,664	...	10,217	...
Japan	85,710	...	88,237	...	95,945	...	92,400	...	86,629	...
South Korea	9,303	...	8,736	...	6,148	...	5,581	...	3,021	...
Taiwan	2,866	...	1,775	...	1,857	...	2,013	...	303	...
Thailand	44	...	45	...	42	...	39	...	17	...
Indonesia	265	...	254	...	243	...	204	...	50	...
Malaysia	243	...	243	...	220	...	176	...	132	...
Philippines	22	...	22	...	21	...	14	...	12	...
Total	108,881	21.8	109,755	19.9	113,855	20.3	110,091	18.8	100,381	17.9
Far East (Communist Bloc)										
China	38,581	...	37,478	...	39,021	...	40,267	...	38,349	...
North Korea	3,858	...	3,858	...	3,748	...	3,527	...	3,527	...
Total	42,439	8.5	41,336	7.5	42,769	7.7	43,794	7.5	41,876	7.5
Oceania										
Australia	6,565	1.3	7,529	1.4	7,675	1.4	8,610	1.5	8,088	1.4
Total World	500,815	100.0	551,501	100.0	559,855	100.0	585,254	100.0	559,371	100.0

NOTE: Detail does not necessarily add to totals.

Source: United States—American Iron and Steel Institute; Canada—Statistics Canada. Other countries—Statistical Quarterly Report for Iron and Steel Industry, Statistisches Bundesamt, Aussenstelle Dusseldorf, Eisen-und Stahlstatistik.

Table 64
World Production of Raw Steel by Countries
(Thousands of net tons)

Countries	1982 ^P		1981 ^R		1980		1979		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States.....	74,577	10.5	120,828	15.5	111,835	14.2	136,341	16.5	137,031	17.3
Canada.....	12,966	1.8	16,135	2.1	17,528	2.2	17,723	2.2	16,423	2.1
Total.....	87,543	12.3	136,963	17.6	129,363	16.4	154,064	18.7	153,454	19.4
Latin America										
Argentina.....	3,211	...	2,784	...	2,962	...	3,526	...	3,067	...
Brazil.....	14,325	...	14,521	...	16,875	...	15,314	...	13,454	...
Chile.....	532	...	724	...	823	...	708	...	679	...
Colombia.....	468	...	436	...	443	...	398	...	430	...
Cuba (a).....	364	...	364	...	331	...	331	...	331	...
Mexico.....	7,790	...	8,382	...	7,825	...	7,722	...	7,398	...
Peru.....	300	...	397	...	518	...	481	...	416	...
Venezuela.....	2,511	...	2,236	...	2,006	...	1,660	...	948	...
Others.....	374	...	266	...	152	...	123	...	80	...
Total.....	29,875	4.2	30,110	3.9	31,935	4.0	30,263	3.7	26,803	3.4
Europe										
Western Europe										
EEC										
Belgium.....	14,774	...	17,716	...	18,673	...	20,272	...	19,170	...
Luxembourg.....	617	...	675	...	809	...	886	...	951	...
Denmark.....	20,283	...	23,431	...	25,547	...	25,750	...	25,178	...
France.....	39,545	...	45,863	...	48,323	...	50,750	...	45,474	...
West Germany.....	67	...	35	...	2	...	79	...	76	...
Ireland.....	26,464	...	27,309	...	29,212	...	26,731	...	26,767	...
Italy.....	4,799	...	6,031	...	5,803	...	6,400	...	6,154	...
Netherlands.....	15,106	...	17,165	...	12,431	...	23,725	...	22,451	...
United Kingdom.....										
Total EEC.....	122,658	17.2	139,227	17.9	140,800	17.8	154,593	18.7	146,221	18.5
Other Western Europe										
Austria.....	4,693	...	5,132	...	5,096	...	5,420	...	4,779	...
Finland.....	2,661	...	2,676	...	2,765	...	2,716	...	2,572	...
Greece (b).....	1,003	...	1,002	...	1,323	...	1,102	...	1,032	...
Norway.....	830	...	935	...	950	...	982	...	875	...
Portugal.....	556	...	611	...	726	...	739	...	699	...
Spain.....	14,490	...	14,214	...	13,936	...	13,501	...	12,499	...
Sweden.....	4,299	...	4,155	...	4,670	...	5,217	...	4,757	...
Switzerland.....	1,102	...	1,065	...	1,024	...	977	...	864	...
Turkey.....	3,134	...	2,673	...	2,795	...	2,641	...	2,394	...
Yugoslavia (a).....	4,245	...	4,383	...	4,006	...	3,897	...	3,810	...
Total Other W. Europe.....	36,010	5.1	35,844	4.6	37,291	4.7	37,192	4.5	34,285	4.3
Total Western Europe.....	158,668	22.3	175,071	22.5	178,091	22.5	191,785	23.2	180,506	22.8

(a) Communist Bloc.

(b) Include in 1981 and 1982 EEC total.

Table 64 (continued)
World Production of Raw Steel by Countries

(Thousands of net tons)

Countries	1982 ^P		1981 ^R		1980		1979		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Eastern Europe (Communist Bloc)										
Bulgaria	2,866	...	2,737	...	2,830	...	2,736	...	2,722	...
Czechoslovakia	16,533	...	16,831	...	16,452	...	16,333	...	16,859	...
East Germany	7,826	...	8,230	...	8,056	...	7,743	...	7,690	...
Hungary	4,188	...	4,018	...	4,152	...	4,309	...	4,274	...
Poland	16,533	...	17,325	...	21,478	...	21,184	...	21,219	...
Rumania	14,329	...	14,356	...	14,523	...	14,230	...	12,984	...
U.S.S.R.	162,575	...	163,695	...	163,064	...	164,339	...	166,929	...
Total Eastern Europe	224,850	31.6	227,192	29.1	230,555	29.2	230,874	28.0	232,677	29.5
Total Europe	383,518	53.9	402,263	51.6	408,646	51.7	422,859	51.2	413,183	52.3
Africa										
Zimbabwe	606	...	762	...	887	...	816	...	772	...
Republic of South Africa	9,038	...	9,925	...	9,996	...	9,784	...	8,710	...
Others	1,153	...	1,071	...	950	...	790	...	970	...
Total	10,802	1.5	11,758	1.5	11,833	1.5	11,390	1.4	10,452	1.3
Middle East										
Egypt	1,047	...	992	...	882	...	882	...	661	...
Israel	96	...	126	...	127	...	118	...	104	...
Iran	1,323	...	1,323	...	1,323	...	1,576	...	1,433	...
Other	766	...	715	...	624	...	624	...	201	...
Total	3,232	0.5	3,156	0.4	2,956	0.4	3,200	0.4	2,399	0.3
Asia										
India	12,121	...	11,865	...	10,487	...	11,162	...	11,132	...
Japan	109,722	...	112,067	...	122,791	...	123,180	...	112,551	...
South Korea	12,960	...	11,852	...	9,433	...	8,389	...	5,477	...
Taiwan	4,576	...	3,480	...	4,657	...	4,685	...	3,783	...
Others	2,443	...	1,926	...	2,388	...	2,333	...	2,121	...
Total	141,822	19.9	141,190	18.1	149,756	18.9	149,749	18.1	135,064	17.1
Asia (Communist Bloc)										
China	40,781	...	39,238	...	40,918	...	38,007	...	35,031	...
North Korea	6,393	...	6,062	...	6,393	...	5,952	...	5,600	...
Total	47,174	6.6	45,300	5.6	47,311	6.0	43,959	5.3	40,631	5.1
Oceania										
Australia	7,022	...	8,415	...	8,365	...	8,950	...	8,373	...
New Zealand	278	...	244	...	254	...	252	...	248	...
Total	7,300	1.1	8,659	1.1	8,619	1.1	9,202	1.2	8,621	1.1
Total Free World	434,633	61.1	502,160	64.4	508,216	64.8	545,425	66.7	513,158	65.4
Total Communist Bloc	276,633	38.9	277,239	35.6	282,203	35.2	279,061	33.3	277,449	34.6
Total World	711,266	100.0	779,399	100.0	790,419	100.0	824,486	100.0	790,607	100.0

NOTE: United States data excludes steel produced by foundries which report their output to the Bureau of Census, but not to American Iron and Steel Institute as follows: 1982—1,025^P; 1981—1,743; 1980—1,878; 1979—2,039; 1978—1,857; (in thousands of net tons).

SOURCE: United States—American Iron and Steel Institute; Canada—Statistics Canada. Other countries—International Iron and Steel Institute.